1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during the last five years)	Link to the relevant document
Basic Civil Engineering & Mechanics	100020	Building Materials, applications of remote sensing, measurement of area volume, shear force bending moment	2017	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Building Materials & Construction	110311	Fresh and Hardened concrete, damp prevention, anti termite treatment, water proofing	2016	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Fluid Mechanics - I	110312	Flow measurement, stoke's law, dimensional analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Surveying	110313	Traversing, curve setting, linear and angular measurement	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Strength of Materials	110314	Stress Strain, euler's buckling load	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Survey Practice Lab	110315	Traversing by total station, Profiling of road	2018	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Summer Internship Project - I	110317	Students work on in house projects under various domains.	2018	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Estimating, Costing & Contracting	110501	rate analysis, preparation of detailed estimates of buildings, contract	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Structural Design & Drawing (RCC)	110502	design of beams, slabs, columns, footings, staircases	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Fluid Mechanics - II	110503	pipe flow problems, uniform flow in open channels	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Transportation Engineering	110505	geometric design of highways, traffic studies, design of flexible and rigid pavements	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Minor Project - I	110506	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Summer Internship Project - II	110507	students work on improving their soft skills	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Engineering	110509	water treatment plant design, design of distribution system, sewage treatment	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Advanced Structural Design (RCC)	110713	design of water tanks, bridges, prestressed concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Hydraulic Structure	110714	spillways, energy dissipators, cross drainage works	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Advanced Structural Analysis	110715	analysis of tall frames, introduction to softwares for analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Wastewater Treatment & recycling	110754	waste water treatment technqiues, recycling of waste water	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Introduction to Multimodal Urban Transportation Systems	110755	Planning of urban transportation systems, NMT system	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Infrastructure Planning & Management	110756	Construction & Economic Risks, Flexible Project Arrangements, Stakeholder Management	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Integrated Waste Management for Smart City	900201	energy recovery from municipal solid waste, leachate management, biomedical, plastic, ewaste management	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Project Planning & Control	900202	network techniques in project planning & management, resource planning, cost control	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Urban Planning & Transportation Systems	900213	planning of urban transportation systems, intelligent systems	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Software Application for Solving Civil Engineering Problems	110701	Study on Prima Vera, STADD Pro & MATLAB	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Summer Internship Project - III	110702	Field oreinted case studies like bridge, overhead tanks, highway and multistorey buildings, etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Creative Problem Solving	110703	Providing engineering solutions of critical problems	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Computational Techniques	510111	Game Theory, Theory of Probability, Z transform	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Construction Materials, Machines & Techniques	510121	Concrete mix design, special concrete, prefabrication	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Contract Management	510113	claims & arbitrations, construction contracts BOT projects	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Maintenance Management	510114	Provision of NBC, Plumbing services	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Infrastructure Development	510115	strategic issues in infrastructure development, risk management in infrastructure project	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Formwork for Concrete Structures	510116	formwork for special structures, formwork managment	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Organizational Behaviour & Management	800108	group dynamics, comparative management styles and approaches	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Safety & Quality Management	800109	quality standards, ISO, Quality improvement	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Construction Lab	510119	tests in concrete, CBR test of soil	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Urban Governance & Development Managememt	800308	Metropolitan Planning, Dealing challenging urban issues	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Disseration Part-I	510311	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Chemistry & Microbiology	530111	instrumental methods of analysis, microbiology of water and waste water	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Solid & Hazardous Waste Management	530112	energy recovery from municipal solid waste, leachate management, biomedical, plastic, ewaste management	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Advanced Treatment Process - I (Waste Water Engineering)	530113	sewage treatment techniques, sewage disposal	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Industrial Waste Management	530114	Tretament of various industrial wastes, like textile, paper pulp etc	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Auditing & Management System	530115	environmental management system approaches, EMAS, CSR	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Hydraulics	530116	Pollution transport in surface water	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Sustainable Waste Management System	800110	low cost sanitation methods, green design	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Engineering Lab	530118	water and waste water quality analysis	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Trace & Ultra Trace Analysis of Metals using Atomic Absorption Spectrometry	800309	Application of AAS techniques	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Dissertation Part - I	530311	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Building Planning & Design	110211	Green Buildings, NBC provisions, building bye laws	2018	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Basic Civil Engineering Lab	100026	determination of setting time of cement, compressive strength of cement	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Geotechincal Engineering - I	110411	permeability of soil, stress distribution in soil, shear strength of soil	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Theory of Structure - I	110412	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Transportation Engineering	110413	geometric design of highways, traffic studies, design of flexible and rigid pavements	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Water Resources Engineering	110414	Flood estimation, hydrograph analysis, design of canals	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Civil Drawing Lab	110415	drawing of building elements on AutoCAD	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Structural Design & Drawing (Steel)	110602	design of tension members, compression members, plate girders, built up beams	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Solid Waste Management	110612	collection of solid waste, treatment and disposal of waste, waste to energy, plastic waste, ewaste management	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Construction Planning & Management	110613	time cost optimization using network techniques	2017	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Railway, Airport & Tunnel Engineering	110614	geometrical design, curves, railway stations, airport planning, construction of tunnels	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Geotechnical Engineering - II (Foundation Engineering)	110652	Shallow foundations, deep foundations, pile foundations'	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Concrete Technology	110654	Fibre reinforced concrete, self compacting concrete, concrete mix design	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Air Pollution & Control	110655	air pollution control techniques, air quality monitoring	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Disaster Management	100007	disaster impacts, disaster risk reduction	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Minor Project - II	110607	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Building Services & Maintenance	900120	Provision of NBC, Plumbing services	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Sustainable Materials & Green Building	900121	Green buidlings, provisions of LEED, GRIHA	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Safety in Construction	110851	OSHA regulations, BIM, Safety practices in Construction	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Impact Assessment	110855	Planning & developing of EIA reports	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Rock Engineering	110856	Rock slope stability analysis, tunneling	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Strategies for Sustainable Design	110857	Sustianable design of buildings, uses of various tools like SPSS etc	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Scientific Computing Using Matlab	110858	numerical solution to ODE, curve fitting & interpolation	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Air Pollution & Control	900629	air pollution control techniques, air quality monitoring	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Rural Water Resources Management	900630	Solving case studies in rural water resource management	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Internship / Project	110801	work on field based projects	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Professional Development	110802	overall evaluation of capabilities of students	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Project Economics & Financing	510211	capital budgeting, project risk, financial accounting	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Construction Cost Management	510212	multi criteria decision making methods, multi objective optimization methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Construction Project Management	510213	network techniques in project planning & management, resource planning, cost control	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Safety in Construction	510217	OSHA regulations, BIM, Safety practices in Construction	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Strategies for Sustainable Design	510218	Sustainable design of buildings, uses of various tools like SPSS etc	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Sustainable Materials & Green Building	800208	Green buidlings, provisions of LEED, GRIHA	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Computational Laboratory for Construction Management	510219	MATLAB, Prima Vera, BIM	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Dissertation - II	510405	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Air Pollution & Noise Pollution	530211	air pollution control techniques, air quality monitoring, noise pollution control	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Advanced Treatment Process - II (Water Supply Engineering)	530212	water treatment plant design, design of distribution system	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Environmental Impact Assessment & Ethics	530213	Planning & developing of EIA reports	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Strategies for Sustainable Design	530216	Sustianable design of buildings, uses of various tools like SPSS etc	2021	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Global Climatic Changes & Disaster Management	800209	Climate modelling, disaster mitigation	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Advanced Environmental Engineering Lab	530217	air quality analysis, AAS analysis	2020	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf

Course	Code	Description	Year	Link
Dissertation - II	530405	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/scheme%20syllabus/change%20as%20per%20NAAC/Syllabus%20employbaility%20civil%202021-2022_compressed.pdf
Engineering Mathematics-I	100011	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Energy, Environment, Ecology & Society	100015	To study an environment and ecosystem, To study natural resources	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Technical Language	100016	Language skills	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Language Lab	100017	Language skills	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Devices	200211	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Devices	140211	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Engineering Materials	200212	Different materials and their characteristics used in manufacturing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Engineering Materials	140212	Different materials and their characteristics used in manufacturing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Biology for Engineers(Mandatory Audit Course)	1000002	Biological engineering	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Cyber Security	100009	To prepare students with the technical knowledge and skills needed to protect and defend computer systems and networks.	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Engineering Mathematics-III	100028	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Digital Circuits & Systems	200411	develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Circuits & Systems	140411	develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Analog Integrated Circuits	200412	Deep knowledge in Core Electronic components required in hardware technology	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Analog Integrated Circuits	140412	Deep knowledge in Core Electronic components required in hardware technology	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Analog Communication	200413	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Analog Communication	140413	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Communication Networks	200414	Data communication	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Communication Networks	140414	Data communication	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
PCB Design Lab	200415	Learn PCB design used in hardware technology	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
PCB Design Lab	140415	Learn PCB design used in hardware technology	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Signal Processing	200601	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Data Communication	200602	Layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Data Communication	140602	Layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Minor Project - II	200606	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Minor Project - II	140606	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Optical Communication	200611	Explain the different modes of propagation in an optical fiber	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Optical Communication	140611	Explain the different modes of propagation in an optical fiber	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Antennas and Wave Propagation	200612	Antenna design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Antennas and Wave Propagation	140612	Antenna design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Telecom Switching and Networks	200613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Telecom Switching and Networks	140613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Spread Spectrum Communications and Jamming	200651	Secure communications over a large freequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Spread Spectrum Communications and Jamming	140651	Secure communications over a large freequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital IC Design	200652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital IC Design	140652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Fuzzy Sets,Logic and Systems & Application	200653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Course	Code	Outcome	Year	Link
Fuzzy Sets,Logic and Systems & Application	140653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Intelligent Control	900104	Fuzzy logic, neural networks	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Embedded System	900105	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Microprocessor and Interfacing	140601	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Internship / Project	200801	able to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Professional Development	200802	Develop critical thinking, creativity and effective communication	2022	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Power Management Integrated Circuits	200853	Power management circuits	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Fundamental of power electronics	200854	Power semiconductor devices	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Biomedical Signal Processing	200855	Processing of biomedical signals	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Design and Analysis of VLSI Subsystems	200861	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
An Introduction to Information Theory	200862	To define and apply the basic concepts of information theory	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Fundamentals of MIMO Wireless Communication	200863	MIMO antenna based wireless communication systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Course	Code	Description	Year	Link
Linear Dynamical Systems	900601	Applications to circuits, signal processing, communications, and control systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Sensors and Actuators	900602	Improve skills in microtechnology to fabricate sensors and systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Engineering Physics	100019	Physics relevant to engineering applications.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Basic Mechanical Engineering	100021	To provide a comprehensive knowledge of basic mechanical systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Basic Electrical & Electronics Engineering	100022	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Basic Computer Engineering	100027	An ability to design, implement, and evaluate a computer-based system, process, components	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Workshop	200111	Circuit design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Workshop	140111	Circuit design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Indian Constitution and Traditional Knowledge(Mandatory Audit Course)	1000001	To aware of their basic human rights	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Engineering Mathematics - II	100025	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Circuit Design	200311	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Circuit Design	140311	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Network Theory	200312	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Network Theory	140312	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Signals & Systems	200313	To describe signals mathematically	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Signals & Systems	140313	To describe signals mathematically	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Measurement & Instrumentation	200314	Understanding of Measurement errors in electronics instruments	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electronics Measurement & Instrumentation	140314	Understanding of Measurement errors in electronics instruments	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Software Lab Introduction to MATLAB	200315	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Software Lab Introduction to MATLAB	140315	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Ethics, Economics Entrepreneurship & Management	100005	Developing skill for managing social and economic activities	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electromagnetic Theory	200502	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Electromagnetic Theory	140502	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Microprocessor & Interfacing	200503	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Linear Control Theory	200504	Learning of control system-theory and its implementation used for electronics devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Linear Control Theory	140504	Learning of control system-theory and its implementation used for electronics devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Course Name	Code	Course Outcome	Year	Link
Digital Communication	200505	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Communication	140505	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Minor Project - I	200506	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Minor Project - I	140506	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Data Communication	140503	Layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Intellectual Property Rights	100008	To learn the procedure of obtaining Patents, Copyrights, Trade Marks &Industrial Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
VLSI Lab	200701	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
VLSI Lab	140701	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Creative Problem Solving	200704	Creative thinking skills in problem-solving	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Creative Problem Solving	140704	Creative thinking skills in problem-solving	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Satellite and Radar Communication	200711	Introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Satellite and Radar Communication	140711	Introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

Course	Code	Outcome	Year	Link
VLSI Design	200712	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
VLSI Design	140712	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Microwave Engineering	200713	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Microwave Engineering	140713	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Image Processing	200751	To introduce the concepts of image processing and basic analytical methods to be used in image processing	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Image Processing	140751	To introduce the concepts of image processing and basic analytical methods to be used in image processing	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Introduction to Wireless Cellular Communication	200752	Cellular & Mobile Communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Introduction to Wireless Cellular Communication	140752	Cellular & Mobile Communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Milimeter wave Technology	200753	5G network and radar and satellites	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Milimeter wave Technology	140753	5G network and radar and satellites	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Satellite System	900206	introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Consumer Electronics	900207	to enhance the knowledge, skills and attitudes on core competencies such as; assemble/disassemble consumer electronic products	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf

MEMS & Mechatronics	900218	skill on various fabrication techniques required in MEMS	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Multimedia Communication	900219	Explore the various channels available to communication professionals	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Syllabus%202021-22_compressed.pdf
Digital Electronics	160301	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Electronics	160213	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Structures	160302	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Structures	160211	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Object Oriented Programming & Methodology	160304	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Object Oriented Programming & Methodology	160212	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Discrete Structures	160501	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Software Engineering	160502	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Software Engineering	160412	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Theory of Computation	160503	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Microprocessor & Interfacing	160504	Understanding of different processors and basic architecture of 16 bit microprocessor and their interfacing with memory and I/O devices, understanding of microcontrollers. Designing of systems using microprocessor and microcontroller.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Mining & Predictive Modelling	160714	This course deals with fundamentals of computer. Which includes generations of computer, evolution and development of microprocessor, input and output devices, primary and secondary storage devices, programming languages etc. It also deals with the hardware and software aspects of the computer like operating system, application software and system software.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Soft Computing	160715	Implementation of advanced algorithm for real life problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Mobile Computing	160716	This course covers interesting topics across a variety of mobile systems (wireless LANs, cellular systems, and sensor networks), and revisit the design of the various layers of the networking stack in the context of wireless communication.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Scalable Data Science	160752	Implementation of data science concepts on large scale data	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Social Networks	160754	Analysis of Modern Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Soft Computing	900208	Implementation of advanced algorithm for real life problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Network Security	900209	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
R Programming	900220	Statistical techniques for scientific analysis of data	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks	900222	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Computer System Organization	160311	This course is concerned with the structure and behavior of a computer system as observed by the user. It serves as the link between hardware and software. It is involved with the elements of system interconnection. It enables students to design, create, and deploy applications that are better, quicker, cheaper, and more efficient in order to make informed decisions.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design and analysis of algorithm	160312	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Base Management system	160313	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Operating System	160314	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Java Programming Lab	160315	Design and development of efficient softwares using java programming that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
IoT Lab	160701	Understanding various sensors and technology behind them for creating an IoT based application for real world problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Introduction to Internet of Things (IoT)	230101	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Introduction to Computer Programming	230102	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design & Analysis of Algorithms	230301	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Operating System	230302	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks and Protocols	230303	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Database Management System	230304	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design and Thinking Lab	230305	Understanding various sensors and technology behind them for creating an IoT based application for real world problem solving	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Introduction to Artificial Intelligence	240101	The course introduces the variety of concepts in the field of artificial intelligence. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design & Analysis of Algorithms	240301	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Operating System	240302	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks and Protocols	240303	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Database Management System	240304	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Python Programming Lab	240305	Design and development of efficient softwares using python programming that can solve the problem related to different domains.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Introduction to Artificial Intelligence and Data Science	270101	The course introduces the variety of concepts in the field of artificial intelligence and Data science. It discusses the introduction of AIDS, and how to model a new problem as an AIDS problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods which can be used to model a new problem. It also teaches many algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of artificial intelligence and Data science.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Computer Programming	270102	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Artificial Intelligence and Machine Learning	280101	The course introduces the variety of concepts in the field of artificial intelligence and Machine learning. It discusses the introduction of AIML, and how to model a new problem as an AIML problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods which can be used to model a new problem. It also teaches many algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of artificial intelligence and Machine learning.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Introduction to Computer Programming	280102	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Programming Lab	160405	Design and development of efficient softwares using programming concepts that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Programming Lab	160414	Design and development of efficient softwares using programming concepts that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Compiler Design	160601	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks	160602	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Network & Web Security	160611	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Agile Methodology	160613	This course will explain underpinning philosophy and principles of Agile, lifecycle of an Agile project, including alternative configurations. The products produced during an Agile project and the purpose of these. The techniques used and their benefits and limitations. The roles and responsibilities within an Agile project. The Agile Project Management process can enable planning, management and control for predictable Agile project deliveries.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Analytics with Python	160651	Analysis on Real Data Set	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Introduction to Machine Learning	160652	The course introduces the variety of concepts in the field of Machine learning. It discusses the introduction of ML, and how to model a new problem as an ML problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods etc. which can be used to model a new problem. It also teaches many algorithms to solve each formulation.	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Cloud Computing	160653	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Cloud Computing	160614	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Artificial Intelligence: Knowledge Representation And Reasoning	160654	The course introduces the variety of concepts in the field of artificial intelligence. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Blockchain and its Applications	160854	Course will cover the basic design principles of Blockchain technology and its applications over different sectors. Additionally, the course also provides tutorials on setting up blockchain applications using one of the well-adopted permissionless blockchain platforms - Ethereum, and one permissioned blockchain platform - Hyperledger.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Object Oriented System Development Using UML, Java And Patterns	160855	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Information Security-5-Secure Systems Engineering	160858	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Data Science for Engineers	900620	Mathematical foundations required for Data Science, Model Development and Assessment	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Social Networks	900621	Analysis of Modern Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf

Course	Code	Description	Year	Link
Software Engineering	900108	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Mining & Warehousing	900116	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Robotics & vision control	900119	Robotic vision, the combination of robotics and computer vision, involves the application of computer algorithms to data acquired from sensors. The research community has developed a large body of such algorithms but for a newcomer to the field this can be quite daunting.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	230201	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Data Structures	230202	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Object Oriented Programming and Methodology	230203	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Architecture and Microprocessor	230401	Fundamental knowledge of a computer system and its processing units, input & output operations, memory management, data manipulation operations, and understand different processors and basic architecture of 8/16 bit microprocessors. Development of systems using microprocessor.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Cloud Computing	230402	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Software Engineering	230403	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
IoT Architecture and Protocols	230404	Sensors, actuators, compute servers, and the communication network form the core infrastructure of an IoT framework.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Network & Web Security	230405	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Python Programming Lab	230406	Design and development of efficient softwares using python programming that can solve the problem related to different domains.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Architecture and Microprocessor	240401	Fundamental knowledge of a computer system and its processing units, input & output operations, memory management, data manipulation operations, and understand different processors and basic architecture of 8/16 bit microprocessors. Development of systems using microprocessor.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Cloud Computing	240402	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Software Engineering	240403	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Machine Learning and Optimization	240404	This course deals with the overview of machine learning techniques and its application for solving real world problems, Basic concept of optimization and its application for finding global optimal solution.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Network & Web Security	240405	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design and Thinking Lab	240406	Understanding various sensors and technology behind them for creating an IoT based application for real world problem solving	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	270201	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Structures	270202	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Object Oriented Programming and Methodology	270203	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Computer Programming	160122	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	160123	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Discrete Structures	160124	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
IT workshop	160125	This course deals with fundamentals of computer. Which includes generations of computer, evolution and development of microprocessor, input and output devices, primary and secondary storage devices, programming languages etc. It also deals with the hardware and software aspects of the computer like operating system, application software and system software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Graphics & Multimedia	160303	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Computer Graphics & Multimedia	160411	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Analytics using R programming	900227	Statistical techniques for scientific analysis of data	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks	160413	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Internet of Things (IoT)	230121	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Programming	230122	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	230123	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Discrete structures	230501	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Science in IoT	230502	Mathematical foundations required for Data Science, Model Development and Assessment	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Theory of Computation	230503	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Soft Computing Techniques	230505	Implementation of advanced algorithm for real life problem solving	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Artificial Intelligence	240121	The course introduces the variety of concepts in the field of artificial intelligence. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Programming	240122	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Digital Logic Design	240123	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Discrete structures	240501	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Data Science using python	240502	Mathematical foundations required for Data Science, Model Development and Assessment	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Theory of Computation	240503	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Soft Computing Techniques	240505	Implementation of advanced algorithm for real life problem solving	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Artificial Intelligence and Data Science	270121	The course introduces the variety of concepts in the field of artificial intelligence and Data science. It discusses the introduction of AIDS, and how to model a new problem as an AIDS problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods which can be used to model a new problem. It also teaches many algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of artificial intelligence and Data science.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Computer Programming	270122	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	270123	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Python programming lab	270306	Design and development of efficient softwares using python programming that can solve the problem related to different domains.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Introduction to Artificial Intelligence and Machine Learning	280121	The course introduces the variety of concepts in the field of artificial intelligence and Machine learning. It discusses the introduction of AIML, and how to model a new problem as an AIML problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods which can be used to model a new problem. It also teaches many algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of artificial intelligence and Machine learning.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Course	Code	Description	Year	Link
Computer Programming	280122	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Digital Logic Design	280123	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Discrete structures	280301	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Design & Analysis of Algorithms	280302	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Operating System	280303	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Computer Networks and Protocols	280304	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2020	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf

Database Management System	280305	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Python programming lab	280307	Design and development of efficient softwares using python programming that can solve the problem related to different domains.	2021	https://web.mitsgwalior.in/images/Departments/information_technology/Downloads/CompleteSyllabus.pdf
Chemical Process Calculations	170211	Combustion calculation	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Fluid Mechanics	170311	Pumps, flowmeters and valve	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Organic Process Technology	170312	Synthesis of oils	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Chemical Engineering Thermodynamics	170313	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Fluid Particle Mechanics	170314	Particales size reduction and screen analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Chemical Synthesis Lab	170315	Synthesis of different chemicals	2018	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Heat Transfer	170411	Lumped parameter for distributed heat transfer equipments	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf

Instrumentation & Process Control	170412	PID Controllers,Stablity analysis of process	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Mechanical Design of Process Equipment	170413	Design of head and closures	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Mass Transfer-I	170414	Drying of wet solids, Crystalization	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Process Control Lab	170415	Flow controllers, level control	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Chemical Engineering Thermodynamics	170501	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Mass Transfer –II	170502	Drying of wet solids, Evaporation	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Chemical Reaction Engineering – I	170503	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Computational Methods in Chemical Engg	170504	Optimization of chemical processes	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Inorganic Process Technology	170505	Cement industry,Pulp and paper industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf

Process Equipment Design	170611	Design of head and closures	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Fluidization Engineering	170612	Application of fluidzation Technique methods	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Multicomponent distillation	170613	Thermodynamics and vapor liquid equilibrium	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Polymer Technology	170614	Epoxy resins, emulsion polymerization	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Process Modeling & Simulation	170602	Modelling of reactors, heat exchangers	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Fuels & Combustion	900109	Cmbution calculation,solid briqueting	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Nano Technology	900110	collidoal effect nano particals and its application	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Disaster Management	1000007	Emergency response and disaster management plan	2022	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Transpprt Phenomena	170711	shell balance approch for developing equation	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf

Course	Code	Description	Year	Link
Equilibrium Stage Operation	170712	Technical Skills of Chemical Seperation Processes	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Industrial Pollution prevention and Control	170713	Familiarization with industrial pollution methods and environmental regulations	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Petrochemical Technology	170714	Comprehensive knowledge of Petrochemical sectors	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Petroleum Processing Technology	900211	Application of petroleaum technology in the process of chemical industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Industrial Safety and Hazards	900223	Fall tree analysis,EPA	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2021-22%20bos_merged_compressed.pdf
Optimization in Chemical Engg.	170851	Application of optimization techniques to chemical processes	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Membrane Technology	170653	Utilization of membrane by using different Technology	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2021%20BOS%20COMPRESSED.pdf
Energy Conservation and Waste Heat Recovery	170754	Utilization of waste in the form of energy	2021	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2021%20JUNE%20BOS%20Meeting%20June%202021_compressed.pdf
Waste to energy conversion	170852	Utilization of waste materials for unconventional energy production	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Biomass Conversion and Biorefinery	170853	Exploration of various types of biomass as alternate sources of energy & energy production from them	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf

Computational Fluid Dynamics	900622	Application of process flow calculations & familiarization with ANSYS (commercial CFD software)	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	900607	Technical skills development regarding various energy	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Environmental Quality Monitoring & Analysis	900623	Familiarization with Environmental Quality Montitoring & Analysis in Chemical Industry	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Multiphase Flow	170652	Simultaneous flow of multiphase through porous media	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Physical and electrochemical characterzation in chemical engineer	170654	Characterization of nano particales and semi conductors	2021	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Numerical Methods for Engineers	170753	Interpolation of engineering Problem	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Principles and Practices of Process Equipment and Plant Design	170755	Ergonomics in plant design	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Physico chrmical processes for waste water treatment	170854	Aerobic/anaerobic sludge treatment	2021	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Chemical Process utilities	170855	Drum collers,drum dryers and cooling tower	2021	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf

Course	Code	Topics	Year	Link
Hetrogeneous reaction system	170615	Seven steps of catalysis	2021	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/New%20course%20added/2%202021-22_merged-signed.pdf
Electrochemical Technology in pollution control	900624	Dialysis, electrostatic precipitator	2021	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2%202021-22_merged.pdf
Social Network	150851	Handling Real-world Network Datasets, Strength of Weak Ties, Homophily, Link Analysis, Cascading Behaviour in Networks, Power Laws	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Ethical Hacking	150854	Ethical Disclosure, Cyber Ethics, Information Gathering, Scanning, networking, network security, and cryptography, vanous attacks and vulnerabilities and ways to secure them, Penetration Testing and Tools, Exploits, Vulnerability Analysis	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Hardware Security	150855	Different Issues of Hardware Security, Hardware Security Primitives, Cryptographic Hardware, security threats onmodern hardware design, manufacturing, installation, and operating practices	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Blockchain and its Application	150856	Blockchain Technology and its Importance, Digital Signature, Blockchain Consensus, Smart Contract, Decentralized Identity Management, Blockchain Interoperability	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Online Privacy	150857	Various Privacy breaches, forms of Privacy, Social Media Privacy, Image & Location privacy, Privacy policies	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Reinforcement Learning	150853	Reinforcement Learning algorithms: Bandit algorithms, Full RL & MDPs, Bellman Optimality, Dynamic Programming, Eligibility Traces, Function Approximation	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Ethical Hacking(OC-4)	900627	Cyber Ethics, Information Gathering, Scanning, networking, network security, and cryptography, vanous attacks and vulnerabilities and ways to secure them	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf

Introduction to Internet of Things	900619	IoT Introduction and Fundamentals,Basics of Networking, IOT PROTOCOLS, components, Sensor Networks, Interoperability in IoT, Cloud Computing in IoT	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Online Privacy(OC-4)	900628	Various Privacy breaches, forms of Privacy, Social Media Privacy, Image & Location privacy, Privacy policies	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Internship / Project	150801	Intership or project	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Professional Development	150802	Leadership, Networking, Communicating New Skills, Creative Confidence	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Networking with TCP/IP	150711	TCP/IP model, Subnetting and Supernetting, TCP and UDP Protocols, Routing Protocols, Troubleshooting Principles	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Data Mining and Warehousing	150712	Data Mining, Data Warehouse and OLTP Technology for Data Mining, Data Pre-processing, Mining Association Rules in Large Databases, Classification & Predication and Cluster Analysis	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Distributed Systems	150713	Distributed Computing Model, Distributed Share Memory, Distributed File System, Inter Process Communication and Synchronization, Distributed Scheduling and Deadlock	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Cloud Computing	150754	Cloud Computing Architecture, Service Management, Data Management, Resource Management, Cloud Security	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Deep Learning	150755	Artificial Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Deep Unsupervised Learning, Applications of Deep Learning	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Software Testing	150756	Software Structure and Software Testing, Testing Tactics, Testing & Levels, Special Tests, Test Planning	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Departmental Lab	150701	Lab practicals related to Basic Programming	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf

Course	Code	Description	Year	Link
Summer Internship-III	150702	The primary purpose of doing an academic internship is to better understand the theories, ideas, and practices of your discipline or major by actively engaging in a "hands-on," work-based, learning experience.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Creative Problem Solving	150703	Problem Soving, Algoithm design, Data Strucutres	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Compiler Design	150601	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Computer Network	150602	Networking Protocols, OSI Reference Model & TCP/IP Reference Model	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Network & Web Security	150611	Security Principles, Cryptography, Hash Functions, IP & Web Security, Phishing	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Image Processing	150612	Image Processing Systems, Image Enhancement in spatial Domain, Image Enhancement in Frequency Domain, Image Restoration, Morphological Image Processing, Image Registration, Image Segmentation	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Mobile Computing	150613	Personal Communication Services(PCS), General Packet Radio Services(GPRS), Wireless Application Protocol(WAP), Third Generation (3G) Mobile Services, Wireless Local Loop (WLL)	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
An Introduction to Artificial Intelligence	150654	Modeling a Problem as Search Problem, Uninformed Search, Conventional Vs Machine Learning Programming, Machine Learning, Intelligent Agent, Artificial Intelligence in Real World, Reinforcement Learning	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Introduction to Internet of Things	150656	IoT Introduction and Fundamentals,Basics of Networking, IOT PROTOCOLS, components, Sensor Networks, Interoperability in IoT, Cloud Computing in IoT	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf

Course	Code	Topics	Year	Link
Object Oriented System Development Using UML, Java and Patterns	150657	Life Cycle Models for OO Development, Use Case Diagram, Class Diagram I, Class Diagram II, Sequence Diagram, State chart diagram, Design process, GRASP patterns	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Data Structures	900106	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Python Programming	900107	Python Introduction, Tuples and Lists, Functions, Files and Exceptions, Data Visualization	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Minor Project - II	150603	To develop ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics, Literature study/ Fabrication/ Experimentation	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Discrete Structures	150501	Sets, Functions, Propositional logic, Graph Theory, Group Theory	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Software Engineering	150502	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Theory of Computation	150503	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Microprocessor & Interfacing	150504	Microprocessors (8086), Basic Peripherals and Interfacing, Special Purpose Programmable Peripheral Devices and Interfacing, Serial and Parallel Data Transfer, Microcontrollers	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Minor Project-I	150505	In this course the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good engineer	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Summer interenship Project-II(Evaluation)	150506	The primary purpose of doing an academic internship is to better understand the theories, ideas, and practices of your discipline or major by actively engaging in a "hands-on," work-based, learning experience.	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf

Self Learning/ Preseantation(SWAYAM/ NPTEL/MOOC)	150507	MOOC Courses	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Computer Networks	150411	Networking Protocols, OSI Reference Model & TCP/IP Reference Model	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Database Management System	150412	SQL, Normalization, Transaction Processing & Concurrency Control	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Software Engineering	150413	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Theory of Computation	150414	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Programming Lab Python Programming	150415	Setting up programming environment, running python programs from a terminal, Python: basics, functions, loops, Object oriented concepts, and working with libraries	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Discrete Structures	150416	Sets, Functions, Propositional logic, Graph Theory, Group Theory	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Computer System Organization	150311	Central Processing Unit (CPU), Computer Arithmetic, Microprocessors, Input-Output Organization, Memory Organization	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Operating System	150312	Basics of operating systems, Process management, Memory management, Storage management	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Computer Graphics	150313	Interactive Computer Graphics, Scan Conversion Technique, 2D & 3D Transformations, Clipping	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Design and Analysis of Algorithms	150314	Algorithms and its importance, Algorithm Design Methods (Divide and Conquer Method, Greedy Method, Dynamic Programming, Backtracking), Algorithm Analysis	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf

Course	Code	Topics	Year	Link
Computer Hardware and Troubleshooting Lab	150315	Familiarize the computer system Layout, Understanding of Motherboard and its interfacing component, Installation and configuration Windows and Linux operating systems, Remote desktop connections and file sharing	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Self Learning/ Preseantation(SWAYAM/ NPTEL/MOOC)	150316	MOOC Courses	2021	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Summer Internship Project - I	150317	In house internship	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Data Structures	150214	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Object Oriented Programming & Methodology	150212	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
Digital Electronics	150213	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20Jan-June%202022.pdf
IT Workshop	150111	Evolution of internet, Cyber security and cyber laws, Professional word documents excel, spreadsheets, and power point presentations, Operating System and Software Installations, HTML, Python Langauge	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/NAAC/1.1.3%20July%20-Dec%202021%202021.pdf
Architectural Design I	210112	FORM BUILDING(MODELS) and Product Design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Graphics - I	210114	Solve basic problems involving graphics and spatial manipulations for architectural Isometric view: Exterior view of a simple residential building showing all building components. Axonometric view: Axonometric view of a room interior showing all interior components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Description	Year	Link
Workshop I	210117	Introduction, type of patterns, pattern making, preparation of moulds and moulding equipment detail.Associate properties of different materials and products for designing and model making	2020	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Professional Communication	210111	Essentials of good writing, Technical Descriptions of Simple Engineering Objects; Formal (Application, Email, CV, Résumé, Memo, Report writing) Implement professional work habits, including those necessary for effective collaboration and corporation with others (HOTS4)	2020	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design III	210311	Study of contemporary practices & design for town houses and villas in urban areas, to sensitize the students towards life style, individual preferences, space – activity relationship and exploration of how material, color, texture and light affect the quality of spaces is the main focus. It is also intended as an exercise in massing & configuration of façade elements such as the balancing of solids & voids, adoption of a system of proportioning and elements of contemporary detailing. This design exercise will also attempt to involve the student in the built form / open space relationship & explore the connectivity between indoor & outdoor spaces./ Design independent residential buildings in urban areas with concepts that respond to	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction II	210312	UNIT-3DETAILS OF DOORS, WINDOWS & VENTILATORS: Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door., Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door.,Timbers Windows & ventilators: Casement(side hug & top hug), Sliding pivoted (horizontal and vertical) foldingand bay windows, fixed light of different sizes and shapes.,Combined doors and windows and ventilators.:Draw types of timber doors, windows, ventilators and its joinery detail.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Description	Year	Link
Graphics III	210313	Exercise will be a group activity; to measure and draw the floor plan along with the plot boundaries, four side elevations, four sections, block plan, site plan of a large building or a settlement with the help of CAD. In addition to this drawing shall be prepared based on examples of buildings by giving a sketch design. Drawings shall be detailed enough to explain the complete design.:Develop Basic skills in visual composition using Graphics	2020	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Surveying & Levelling	210314	Leveling and contouring.:Work out the contour surveying with the help of leveling instrument	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design V	210501	MATERIAL STUDIO, Analyzethe culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc HEALTHCARE BUILDINGS, Hospitals and Nursing homes are a special category of buildings where functional aspects such as planning, building services & the creation of a sterile environment become important design issues.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction IV	210502	BUILDING MATERIALS –IV, STEEL, WALL & FLOOR, PARTITIONS & FALSE CEILING, THERMAL INSULATION AND ACOUSTICS INSULATION	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services II	210510	ELECTRICAL SERVICES, ILLUMINATION AND LIGHTING DESIGN, AIR CONDITIONING ,UNIT-4 PUMPS AND MACHINERIES, ELECTRICAL AND AC DUCT LAYOUT OF SIMPLE BUILDINGS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Science and energy conservation	210504	UNIT-1 CLIMATE &THERMAL COMFORT, UNIT-2 SOLAR GEOMETRY &DESIGN OF SUNSHADING DEVICES UNIT-3 PRINCIPLES OF THERMAL DESIGN IN BUILDINGS ,UNIT-4 VENTILATION & DAY LIGHTING UNIT-5 DESIGN FOR CLIMATIC TYPES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Visual Communication Design for Digital Media (SWAYAM)	210508	This course impart knowledge on the different aspects of visual communication design, emphasizing on virtual media platform, emphasize on understanding of visual cognition, which is the key factor to achieve user-friendly design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective II Interior Design	210512	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf

Elective II Architectural conservation and historic preservation	210513	Student understands the field of conservation, its techniques and develop a base for practical field work.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective II Reginally Responsive Architecture	210514	student will understand the role of regional awareness and how it affect the design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective II Space Architecture Design	210515	Students understands about the composition of space design so that they can understand the proer circulation space.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Architectural Design VII	210701	UNIT-1 - The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e, Commercial center, hospital, Study and incorporation of building bye-laws should be complete in this Sem. UNIT-2- The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e. Auditorium, sports cinema, sports complex & educational buildings.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Advance Building Construction I	210702	UNIT-1 SPECIAL STRUCTURES, UNIT- 2 ADVANCE CONSTRUCTION SYSTEM,UNIT- 3 PRE STRESSED CONCRETE UNIT- 4 TALL BUILDINGS, UNIT- 5 SHELLS AND FOLDED PLATES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Project Management & Building Economics	210703	Students obtain the ability to appreciate the three dimensional implications of design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Estimating and Costing & Specification	210704	Student can estimate the costing and specification of small porjects and undersstands about the successful implementation of the project to know about the material required and cost to be incurred before starting a new project.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Elective V-Urban Landuse and transportation planning (SWAYAM)	210752	This course help studetns to plan for our smart cities in a more comprehensive way including urban demographic transitions, real estate development, residential location choice, land price fluctuations and transportation planning. Additionally, the course focuses on transport infrastructure and freight planning.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective V-Urban governance and Development Management (UGDM) (SWAYAM)	210753	This course help students in working at the city and regional level organizations like municipal corporations, development authorities etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective V- Glass in buildings: Design and Applications (SWAYAM)	210754	This course helps students with the fundamental aspects of structural theories including statics and structural systems, the strength of material, structural mechanics and structural analysis, the various types of structural systems like a truss, space frame, plates, shell, tensile structure etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Professional Training	210901	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Planning Principles & Theories	670111	Present and past paradigms in planning as the distinct perspective(s) from which problems and solutions are being defined. 'object-centred', the 'control-centred', and the 'decision-centred' paradigms.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Socio-Economic Basis for Planning	670102	Anticipations of and response to future needs for social, health and other human services with spatial planning, physical and social features like topography, drainage, climate, population settlements etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Planning Techniques	670103	Methods or processes followed by planners in preparing or evaluating their plans, programs, and policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Infrastructure & Transportation Planning	670104	Defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf

Housing	670115	fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Studio Course-I	670106	Film appreciation, literature review and area appreciation	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Studio Course-II	670107	Site Planning and prepare city development plan	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective-I (Inclusive Urban Planning)	670311	Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective-I (Planning for Tourism)	670312	Tourism plays a very important role in todays time as it promotes the economy of the country.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective-II Environment, Development andDisaster Management,	670313	Energy Generation and Consumption, Energy Planning and Management, and Mitigation and Adaptation to Climate Change, Plans, Policies and Strategies & Policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Elective-II Energy, Climate changeand Urban Development	670314	student will know about climate factor ; relation of energy, climate & urban context, how all three affect one another	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Seminar	670303	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf
Pre-Dissertation	670304	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202021.pdf

Architectural Design II	210211	PROJECT 1(Prototype): SINGLE SPACE DESIGN,PROJECT 2(Prototype): SMALL SCALE MULTI-SPACE DESIGN Enlighten the student on the design project overview & the design process to be followed through relevant presentations. Present an analytical discourse on an identical architectural design project covering Architectural, elements, spaces & terms Noted projects & architects, Space planning etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction I	201212	UNIT-1 LOW-COST CONSTRUCTION - Foundation and wallsin stabilized mud-rammed earth and compact earth blocksIntroduction toLow-cost construction techniques and materials with combinations of mud and terra – cotta. UNIT-2 INTRODUCTION OF BASIC BUILDING COMPONENTS, UNIT-3 WALL, UNIT -4 INTRODUCTION TO OPENINGS UNIT-5 ROOFS - Simple configurations and details of various forms of roofs: Flat, sloped, pyramids and dome.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Graphics - II	210213	UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING - Principles of perspective drawings and understanding of all relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. UNIT-2 TWO POINT PERSPECTIVE VIEW OF BUILDINGS - Construction of Two point perspective grid. UNIT-3 ONE POINT INTERIOR PERSPECTIVE - Construction of One point perspective grid, UNIT-4 SCIOGRAPHY, UNIT-5 MEASURED DRAWING- To measure and draw the Ground Floor Plan along with plot boundaries, four side elevations, two sections, block plan, site plan of existing single storied building	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Workshop - II	210217	Students obtain the ability of model making, basics of rendering, presentation skills using various materials.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design IV	210413	PROJECT 1(Prototype): VILLAGE SURVEY & RURAL HOUSING , PROJECT 2(Prototype): DESIGN OF COMMUNITY FACILITIES - Community facilities –Design of Community hall, Nursing home, Youth hostel, Old age home etc., encourage the student to explore concepts an agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction III	210414	UNIT-1 BUILDING MATERIALS, UNIT -2 RCC FOUNDATION - Introduction to RCC framed structures, concrete foundation: Types of footing – Isolated, combined, continuous, strip raft & piles , UNIT-3 BEAMS AND SLABS, UNIT-4 RETAINING WALL, EXPANSION JOINTS, AND WATERPROOFING - Waterproofing basement, construction of pools, fireplaces, and fuels. Fire safety construction techniques, UNIT-5 CLADDING SYSTEMS & FINISHES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services I	210415	UNIT-1 WATER SUPPLY - Sources of water supply – Water Quality - Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit, UNIT-2 DRAINAGE AND SEWAGE DISPOSAL, UNIT-3 SOLID WASTE DISPOSAL, UNIT-4 EMERGING PROCESSING TECHNOLOGIES, UNIT-5 PLUMBING AND FIRE FIGHTING LAYOUT OF SIMPLE BUIDINGS - Designing of toilet blocks in residential and public buildings, showing complete details of fittings and plumbing required for water supply and drainage.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Content	Year	Link
Structure IV	210417	UNIT- 1 PROPERTIES OF STEEL SECTIONS & TYPES OF CONNECTIONS - Design of welded and bolted connections for members subjected to axial forces. Site visit to a steel fabrication unit. UNIT-2 TENSION AND COMPRESSION MEMBERS, UNIT -3 STEEL BEAMS, UNIT-4 STEEL TRUSSES & GIRDERS - Study of the various types of roof trusses , UNIT-5 INTRODUCTION TO LONG SPAN STEEL STRUCTURAL SYSTEMS- Space frame structural system in tubular steel – various types of connectors – single / double & triple grid space frames	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design VI	210601	PROJECT I: DESIGN FOR HOSPITALITY INDUSTRY - The project requires the understanding of the special nature and functioning of the hotel industry and to respond with suitable concepts of space planning, circulation, interior design, materials and lighting. PROJECT II: URBAN INFRASTRUCTURE PROJECTS - Contemporary transportation terminals and stadiums are large buildings with multiple entries & exits dealing with large crowds and having multiple levels with large spans, complex services & demanding environmental conditions.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services III (Acoustic & Fire Fighting)	210602	UNIT-1 INTRODUCTION TO THE STUDY OF ACOUSTICS & SOUND TRANSMISSION, ABSORPTION, INSULATION UNIT-2 NOISE CONTROL AND SOUND REINFORCEMENT & ACOUSTICS IN BUILDING DESIGN AND CONSTRUCTION UNIT-3 FIRE FIGHTING SERVICES, UNIT-4 FIRE FIGHTING SYSTEMS & BUILDING NORMS. UNIT-5 FIRE FIGHTING LAYOUT OF BUILDINGS & DESIGN AND DETAILING FOR ACOUSTICS OF MULTIPURPOSE HALLS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Site Planning and Landscaping Architecture	210608	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Working Drawing	210604	UNIT- 1 BUILDING DRAWING - Centre line plan, Foundation plan, Structural grid plan (in case of framed structures), Basement floor plan, Ground floor plan, Typical floor plan, All elevations, All sections: one at least through staircase and one through toilet, Terrace floor plan giving details of surface drawing etc. UNIT- 2 SERVICES - Sanitation drawings showing fixtures etc, Electrical layout plan, typical wall profiles sections, detailed drawings of special rooms like kitchens, toilets, staircase etc, UNIT- 3 SPECIFICATION, UNIT- 4 MATERIALS - Glass Plywood and laminates Hardware Electrical wires and accessories Water supply and plumbing: fittings and fixtures flooring and cladding.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective III Architectural Journalism	210614	Enhances the various techniques of Architectural Journalism, changing scenario in the context of globalization, Architectural Journalism in practical.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective III Housing	210611	Student gains the knowledge of fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Elective IV Strategies for suistainable Design (SWAYAM)	210615	The course discusses sustainability principles and concepts from across various domains. Elaborates on sustainability definitions, aspects, dynamic nature of it, and its application in everyday life. Further, it discusses global efforts from UNFCCC, IPCC, and other agencies for developing context-based solutions and climate change mitigation efforts.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Elective IV Environmental Impact Assessment (SWAYAM)	210616	Student understand meaning of EIA.Environmental Impact Assessment (EIA) is a process of evaluating the likely environmental impacts of a proposed project or development, taking into account inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Architectural Design VIII	210801	PROJECT I: HOUSING - The various types of housing projects in a typical urban scenario can be taken with suitable design parameters that get established after conducting a rigorous study. PROJECT II: URBAN DESIGN OR CONSERVATION - Urban design projects could deal with redevelopment of problem areas such as riverfronts, beach fronts, market areas, bazaars or commercial & residential districts that have reached dead end situation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Urban Design	210802	UNIT- 1 INTRODUCTION - Emergence of urban design as a discipline, need for urban design, Elements of urban design(buildings, streets, public spaces, transports, other elements etc. Principles of urban design- creating form and spatial definition in articulation of urban design expression. UNIT- 2 STUDY AND ANALYSIS OF URBAN SPACES IN HISTORY AND MODERN CONCEPTS UNIT- 3 BASIC PRINCIPLES & TECHNIQUES IN URBAN DESIGN, UNIT- 4 RENEWAL, RE-DEVELOPEMENT AND FORMULATING URBAN DESIGN, UNIT- 5 URBAN DESIGN SURVEY AND PRESENTATION - Conducting an urban design survey of Conservation of historic cities, open-spaces, development of market spaces, transit oriented developments, water front development in India.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Professional Practice and Ethics	210803	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Dissertation	210804	Students obtain understanding of standards and conventions of doing dissertation and gain preliminary background information that puts the research in context and to clarify the focus of the study.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Description	Year	Link
Elective VI Furniture Design(SWAYAM)	210811	UNIT 1 - Knowledge about the design , space , elements , features of the furnitures, UNIT - 2 - VARITIES AND PURPOSE OF DIFFERENT MATERIALS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Elective VI Suistainable Interventions in Historic Buildings (SWAYAM)	210814	Student know about heritage conservation; energy refurbishment of historic buildings; cultural heritage; conservation requirements; sustainability	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Elective VI Environment and Architecture (SWAYAM)	210815	Students obtain knowledge of decide how to plan, finance and manage urban areas. Structures supported by effective land markets, appropriate regulation, good public services, adequate public finance and transparent and accountable city level political systems.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Environmentl Impact and assessment (Elective VII) (SWAYAM)	2101011	Student obtain knowledge of environment factors and there impact on architecture	2022	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
BIM (COURSERA)	2101013	Student obtain knowledge of environment factors and there impact on architecture	2022	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
GIS(SWAYAM)	2101012	Basics of Remote Sensing, Geographical Information System (GIS) and Global Navigation Satellite System (GNSS) is a 15 week course conducted by IIRS, ISRO. The course constitutes 75 learning hours spread across four modules namely Basics of Remote Sensing, Global Navigation Satellite System, Geographic Information System and Applications of Geopspatial technology	2022	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Google UX (COURSERA)	2101014	Week 1 : Introduction to User Interface Design (UI)Brief History of UI DesignWeek 2 : UI Design MethodologyWeek 3 : User Experience design component in Interface DesignVisual Communication design component in Interface DesignWeek 4 : Case Studies and Best Practices	2022	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf

City & Metropolitan	670201	Planning, finance and manage urban areas. Structures supported by effective land markets, appropriate regulation, good public services, adequate public finance and transparent and accountable city level political systems.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Urban Heritage Conservation	670202	Urban conservation in planning, its techniques and Policies and Programmes, Legislations	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Urban Development Finance & Project Planning	670203	Finance at different stages, investment planning and financing mechanism, project formulation and appraisal, project management and implementation, and project evaluation and monitoring	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Legal Issues & Professional	670204	Planning legislation & concepts, urban policy, its nature and process of making urban policy, Professional Practice in planning	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Research Methodology	670205	Basic principles & methods of Research, specifically in Design at Urban scale, and towards helping them conducting their own authentic & independent research. Research basics, defining research problem, Research Design, Developing a Research Plan, Plagiarism, IPR, etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Studio-I	670206	Dynamics of various components of the city and level interventions with multi-dimensional, dynamic and futuristic spaces.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Studio-II	670207	Remote Sensing – Aerial and Satellite; introduction to GIS, Spatial data and Attribute data; Satellite images as input to GIS; Collection and presentation of baseline information.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Dissertation	670401	Students obtain understanding of standards and conventions of doing dissertation and gain preliminary background information that puts the research in context and to clarify the focus of the study.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov%202021.pdf
Electromagnetic Field Theory	130311	Knowledge of Electromagnetic fields to understand working principle of various power apparatus & machine	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Course	Code	Outcome	Year	Link
Electrical and Electronic Measurement	130312	Knowledge of measurement technique for electrical/electronic parameters , accuracy and need of calibration	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Network Analysis	130313	capable of analyzing any given electric/ electroncis networks, concepts of transients and unbalanced three phase supply	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Analog Electronics	130314	Understand the principle, operation and applications of diode, BJT, FET, amplifier etc to develop electronic circuit	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Software Lab - I	130315	Use MATLAB programing/ Simulink for programming & modelling of Electrical Components	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Self Learning/Presentation	130316	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Summer Internship Project -I	130317	Learn and sharpen in-demand technical skills	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Signals & Systems	130501	Understanding fundamental characteristics of Signals & Systems in both time & transform domain. Also to develop mathematical skills to solve problems involving convolution, filtering, modulation and sampling.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Power System-II	130502	Explore the ways and means to perform power system analysis in normal operation and under symmetrical and unsymmetrical faults	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electrical Machines-II	130503	Develop basic concepts of ac machine, their constrution details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Power Electronics	130504	Understand the concepts, basic operation, steady state operation of efficient switched-mode power conversion techniques, including basic circuit operation	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Minor Project-I	130505	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Summer Internship Project -II	130506	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Self Learning	130507	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electrical Drives	130711	Overview of complete electric drive system including the mechanical part, electric machine, power converters & control	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Renewable Energy Systems	130712	Achieve a clear conceptual understanding of technical and commercial aspects of Alternative Sources of Energy.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
IoT in Microgrid	130713	Understand the concepts of flexible and efficient electric grid by enabling the integration of growing deployments of distributed energy resources such as renewables like solar, wind etc.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Intelligent Sensors and Instrumentation	130714	knowledge in physical principles applied in sensing, measurement and a comprehensive understanding on how measurement systems are designed, calibrated, characterised, and analysed.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Control Systems Lab	130701	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Summer Internship Project -III	130702	Learn and sharpen in-demand technical skills	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Industrial Automatiom lab	130703	To make acquainted with the conceptual as well as practical knowledge of the PLC programming	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Introduction to Smart Grid	130751	Provides overview of smart grid and its potential in different types of power sectors such as power generation, transmission and distribution	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Advances in UHV Transmission & Distribution	130752	Emphasizes learning and understanding the newer design criteria required for the UHV transmission systems viz: insulation design, protections, safety concerns etc	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Applications of Electrical Equipment & Motors	900205	Build the concepts of various types of electrical machines and applications of electrical machines	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
IoT in Microgrid	900216	Provide anoverview of microgrid and its potential in different types of power sectors such as power generation, transmission and distribution	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electric Vehicle	900217	Building of engineering knowledge used for the design, development, and test of Electric vehicle systems	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Engineering Materials	130211	Provide thorough understanding of the electrical properties and characteristics of various materials, used in the electrical appliances	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Basic Computer Engineering	100023	Develop an understanding of basic concepts of computer science and engineering and algorithms, programming approaches and program documentation techniques.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electrical Workshop	130212	Provides a platform for all kind of practical jobs like domestic wiring, fittings, drilling job, switchboard assembly, coil winding, repair and maintainence work of various electrical appliances.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Digital Electronics & Microprocessor	130411	Basic idea about microprocessor & its programming, munber system & codes	2018	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electrical Machines-I	130412	Develop basic concepts of dc machine and transformer, their construtional details, working principle and characteristic based applications	2018	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Course Name	Code	Course Outcome	Year	Link
Power System-I	130413	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2018	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Programming with Python	130414	Python will doubtlessly be at the forefront of AI innovation. Experts argue that Python is the most compatible programming language for machine learning and artificial intelligence . Its extensive libraries and frameworks are ideal for kick starting new ideas	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Renewable Energy Lab	130415	A new Renewable Energy Lab is set up in the department of Electrical Engineering. The objective of the lab is to train the students in Renewable Energy Sources and technologies and to provide adequate inputs on a variety of issues in harnessing Renewable Energy. The students will also be able to recognize the current and possible future role of Renewable energy sources.	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Switchgear & Protection	130601	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Electrical Engineering Materials	130602	Knowledge of different type of material and their use in engineering application	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Minor Project-II	130603	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Computer Aided Power System Analysis	130611	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Industrial Automation	130612	Understand automation technologies and identify advantages, limitations and applications of thesame.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Transducers & Sensors	130613	Understand the constructions and working principle of different types of sensors and transducers, instrument tranformer, magnetic measuremet, HV measurement etc	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
DC Power Transmission Systems	130656	Gives an introduction to the DC power transmission system using the conventional line commutated converters.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Non Conventional Energy Resources	130657	Provide conceptual understanding of technical and commercial aspects of Non Conventional Energy Resources	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Design of Power Electronic Converter	130658	Develop the concepts needed to design proper power electronic hardware, simulation tools, proper designing of power PCB, designing magnetics, reducing electromagnetic interference etc	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Energy Conservation & Management	900103	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Biomedical Instrumentation	900115	Learn about the generation & recording of bioelectrical signals, working with medical instruments used in the biomedical field	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Introduction to Internet of Things	130851	Learn about Basics of IoT, Components of IoT including Sensors and actuators, computing and communication system	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Power System Dynamics, Control and Monitoring	130855	Gain high-quality knowledge on stability, operation and control of power systems.	2021	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Introduction to Soft Computing	130861	Expose about the soft computing, various types of soft computing techniques, and applications of soft computing	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Non Conventional Energy Resources	130862	Achieve a clear conceptual understanding of technical and commercial aspects of Alternative Sources of Energy.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Non Conventional Energy Resources	900608	Understand the conceptual understanding of technical aspects of non conventional Sources of Energy.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf

Internship/Project	130801	Get opportunity to enhance the skills, obtain the perspective of a work environment and benefit from a mentor or supervisor's experience and advice.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Professional Development	130802	Taking steps to learn relevant skills, expand your professional network and competency development	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/Syllabus/1.1.3_syllabus%202021-22.pdf
Engineering Graphics	100014	imagination and mental visualization capabilities for interpreting the geometrical details of common engineering objects	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Engineering Graphics Lab	100018	Hand on practice of different drawing	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Material Science	120211	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Material Science	190211	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Manufacturing Practices	100024	basics of tools and equipments used in fitting, carpentry, sheet metal, welding and smithy	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Basic Mechanical Engineering Lab	120026	Demonstrate Engines and Boiler fundamentals using models	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Manufacturing Process	120311	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Mechanics of Materials	120312	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Theory of Machines –I	120313	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Fluid Mechanics and Hydraulic Machines	120314	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Outcome	Year	Link
Software Lab	120315	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Self-learning/Presentation	120316	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Novel Engaging Course	200XXX	To apply inherent talent and knowledge for engineering applications	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Summer Internship Project–I	120318	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Theory of Machines –II	120411	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Design of Machine Elements	120412	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Metal Cutting and Machine Tools	120413	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Engineering Thermodynamics	120414	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production Lab	120415	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Industrial Engineering	120501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Metal Cutting and Machine Tools	120502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Heat And Mass Transfer	120503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Description	Year	Link
Thermal Engineering	120504	Study of various cycles and their applications	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Machine Design	120505	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Minor Project-I	120506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Summer Internship Project-II (Evaluation)	120507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	120508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Advance Production Technology	120601	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Vibration and Noise Engineering	120611	Real-world mechanical vibration problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Statistical Quality Control	120612	Concepts of reliability, life testing and costing of product	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Work Study and Ergonomics	120613	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Turbo Machinery	120614	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Fundamental of Welding Science and Technology	120652	Welding behavior of materials	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Viscous Fluid Flow	120654	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Description	Year	Link
Properties of Materials (Nature and Properties of Material: III)	120655	Materials and its behavior for different applications	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Nature and Properties of Materials	120656	Materials and its behavior for different applications	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Robotics	900101	Robot anatomy and its application	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Product Design	900102	Product requirement and its different aspects	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Minor Project-II	120605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Reliability and Vibration Lab	120701	To check performance of different bearings, analysis of behavior and their relation at different vibration conditions.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Summer Internship Project-III	120702	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Creative Problem Solving (Evaluation)	120703	Optimization of machine, mechanical process for society/industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Refrigeration and Air-Conditioning	120711	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Basic of Finite Element Analysis	120712	The concepts of Mathematical Modelling of Engineering Problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Metrology, Measurement and Control	120713	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Total Quality Management	120714	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Foundation of Computational Fluid Dynamics	120751	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Introduction to Composites	120752	Develop the concepts of various composites materials used in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Advanced Machining Processes	120753	Aims at bringing the students up-to-date with the latest technological	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Industrial Safety Engineering	120754	Skill to reduce the occurrence of unsafe operation in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Industrial Automation	900203	Different machine control systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Solar Energy	900204	Application of solar systems for betterment of society.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Engineering Materials for Industrial Applications	900214	Different materials and their behavior for different application.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Maintenance Engineering	900215	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Internship/Project	120801	Apply Engineering knowledge for society/industries projects/problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Professional Development	120802	To motivate strudents to participate in different institute/national activities.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Quality Design and Control	120851	Statistical methods used in industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Robotics: Basics and Selected Advanced Concepts	120852	Key elements and constituents of a robot	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Steam and Gas Power Systems	120853	Develop understanding of the steam and gas power systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Sound and Structural Vibration	120854	To measure sound and classify according to range	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Outcome	Year	Link
Carbon Materials and Manufacturing	120855	Application of carbon material and its processes	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Introduction to abrasive Machining and Finishing Processes	120856	Different advanced machining process with application for different materials	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Waste to Energy Conversion	900605	Analyze and design the basic mobile robotic systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Product Design and Manufacturing	900609	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automatic Control	900610	Understand the fundamental and advance concepts of automatic controls for engineers and designers.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Nature and properties of materials	900631	Materials and its behavior for different applications	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Materials	190311	Study of materials used in automotive and their behavior.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Mechanics of Materials	190312	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Engines	190313	Study of different concepts of IC engine, body and chessis details.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Fluid Mechanics & Hydraulic Machines	190314	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Software Lab	190315	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Self-learning/Presentation	190316	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Summer Internship Project–I	190318	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Theory of Machines –I	190411	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Electrical and Electronics System	190412	Develop skill of finding faults and rectification of ignition circuits and wiring.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Engineering Thermodynamics	190413	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Manufacturing Process	190414	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production Lab	190415	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Industrial Engineering	190501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Metal Cutting and Machine Tool	190502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Heat and Mass Transfer	190503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Design of Machine Elements	190504	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Chassis	190505	Understand vehicle chassis structure and components of transmission lines.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Minor Project-I	190506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Summer Internship Project-II (Evaluation)	190507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Description	Year	Link
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	190508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Transmission	190601	Develop the basic knowledge of the students in mechanics, torque conversion area	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Material	190611	Study of materials used in automotive and their behavior.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Work Study and Ergonomics	190612	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Pollution and Control	190613	Different emission standards and controls	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Component Design	190614	Concepts of stress analysis, theories of failure and material science to analyze, design and/or select commonly used Automotive components.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Robotics and Control: Theory and Practice	190652	Key elements and constituents of a robot	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Fundamental of Automotive System	190653	Basics of automotive system and construction	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Viscous Fluid Flow	190654	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Nature and Properties of Materials	190655	Materials and its behavior for different applications	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Minor Project-II	190605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automotive Maintenance	190701	Hands in session for vehicle maintenance, Vehicle service procedure	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Summer Internship Project-III	190702	Hands on sessions for skill development	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Creative Problem Solving (Evaluation)	190703	Optimization of machine, mechanical process for society/industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Vehicle Dynamics	190711	Forces act on vehicles, performace analysis, design considerations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Theory of Fuels and Lubricants	190712	Fules and their behavior under varios conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Hybrid Electric Vehicles	190713	Study of hybrid vehicle, structure, component, use	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Two and Three-Wheeler Technology	190714	Vehicle designing and its performance	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Farm Machinery	190751	Design of horticultural machines and equipment	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Introduction to Mechanical Vibration	190753	Robot mechanism and its application in real life	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Industrial Safety Engineering	190754	Skill to reduce the occurrence of unsafe operation in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Introduction to Composites	190755	Develop the concepts of various composites materials used in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Internship/Project	190801	Apply Engineering knowledge for society/industries projects/problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Professional Development	190802	To motivate strudents to participate in different institute/national activities.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Wheeled Mobile Robots	190851	Computational and motion control methods applicable to mobile robotic systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Course	Code	Description	Year	Link
Steam and Gas Power Systems	190852	Develop understanding of the steam and gas power systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Fundamentals of Theoretical and Experimental Aerodynamics	190854	Aerodynamics aspects in vehicle and performance	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Experimental Stress Analysis	190855	Measurement of stress on different sections with experimental techniques and gauges	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Applied Ergonomics	190856	Different aspects of ergonomics in human movement	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Introduction to Soft Matter	190857	applications and properties in engineering applications	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production Engineering- I	560112	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production and Operations Management	560119	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Maintenance Management	560118	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Flexible Manufacturing Systems	560115	Study of different manufacturing techniques automation and control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Ergonomics and Work Study	560116	Various techniques of work-study for improving the productivity of an organization.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Total Quality Management	560117	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Product Design & Development	800111	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Computer Integrated Manufacturing	800112	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Production Engineering Lab-I	560120	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Self Learning / Presentation	560121	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automation & Robotics	560211	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production Engineering-II	560212	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Logistics and Supply Chain Management	560213	Industrial logistics challeges and their different solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Quality Design and Control	560214	Statistical methods used in industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Traditional and Non-Traditional Optimization Tools	560215	Formulation of design problems as mathematical programming problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Product Design and Manufacturing	560216	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Material characterization	560217	different classes of materials, their properties, structures and imperfections present in them	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Generative Design for Additive Manufacturing	560218	3D Printing, Additive Manufacturing, generative design	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Tools in Scientific Computing	800211	Hands-on training various tools available for scientific computing	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Production Engineering Lab-II	560220	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf

Self Learning / Presentation	560221	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Dissertation Part-I (Literature Review/ Problem Foundation/ Synopsis/survey paper, etc.)	560311	To delop product/simulate/experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Automation in Manufacturing	800310	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2021	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Managerial Functions and Practices	700101	Decision -making, organizational behavioural dynamics governing an organization.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Accounting for Managers	700102	analyze the various financial statements of a company to estimate Cash flows and different ratios.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Operations Management	700103	taking decisions in operating and controlling the production and service industries.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Managerial Economics	700104	take decisions through strategies regarding Market Conditions, Pricing, and facing competition.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Organizational Behaviour	700105	function more effectively in their roles as managers personally and with others.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Transforming Business Through Technology	700106	emerging MIS technologies and trends in enterprise applications.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Syndicate Personality Development Program (SPDP)	700107	self-development process, individual and group learning for behavior modification.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Managerial Communication	700114	improving verbal and non-verbal communication to develop student's skills in applying these concepts to realistic situations in a different workplace environment	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Marketing Management	700116	fundamentals of marketing concept and the role marketing plays in business.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf

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Corporate Governance & Ethics (MAC)	MC0101	concepts relating to business ethics and corporate governance.	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Managing People and Performance in Organizations	700201	to practices and techniques for evaluating performance, structuring teams, coaching and mentoring people	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Statistics for Managers	700202	statistical description and analysis, appropriate for a business student	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Business Research Methods	700203	design and execute a basic survey research project, to understand the research tools and techniques	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
International Business Perspectives	700204	emerging global trends to business environment and framework of International Business	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Financial Management	700213	ensure regular and adequate supply of funds to the concern and Adequate returns to the shareholders,	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Entrepreneurship & Innovation	700215	role of the entrepreneur, innovation and technology in the entrepreneurial process.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Legal Aspects of Business	700216	significant provisions of selected business laws	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Business, Environment and Sustainability	700218	social, political and economic context of business, effect of technology on the environment,Sustainable Business Development	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Digital Business (MAC)	MC0201	Metrics to measure performance and verify effectiveness of information resources	2021	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Strategic Management	700311	Business Strategies and importance of Strategic Management in context with business leadership	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Data Analytics in Business (MAC)	MC0301	data manipulation, predictive analytics, decisions under uncertainty, and decision analytic tools	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Strategic HRM	MB0111	organizational goals with updated strategies regarding Human Resource Management in future	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf

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Talent and Competency Management	MB0112	talent management and competency in building sustainable competitive advantage to an organization.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Industrial Relations & Labour Laws	MB0113	various laws and legislations related to the various industrial affairs	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
e-HRM	MB0114	the emerging trends in e-HRM will provide an enlightenment towards the real-world perspectives of e-HRM	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Consumer Behavior	MB0221	Customer Relationship Management, evaluate marketing strategies intended to influence consumer behavior	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Service Marketing	MB0222	differences between services and physical goods , Services Market STP	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Sales & Distribution Management	MB0223	inter-dependence and relationship amongst channels of distribution	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Advertising & Promotion Management	MB0224	informed decision-making ability for effective and efficient tackling of advertising situation and creativity.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Total Quality Management	MB0331	seven tools of quality, Quality System	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Project Management	MB0332	subject, tools and techniques used for managing projects.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Production Planning and Control	MB0333	Sales and Operations Planning, Production Activity Control system	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Services Operation Management	MB0334	concepts of service management and developing ability to design service delivery systems	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Investment & Portfolio Management	MB0441	tax system, investment decision making by Portfolio Management.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Financial Services	MB0442	Indian and Global Financial System	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf

Course Name	Code	Topics	Year	Link
Working Capital Management	MB0443	Liquidity, Inventory, and Cash Management	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Corporate Tax Planning & Management	MB0444	taxability Policies and procedures related to corporate tax	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Managing Change in Organization	MB0115	OD interventions, Change, and Diagnosis	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Leadership & Team Effectiveness	MB0116	Styles of Leadership, Team dynamics & behaviour	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Training & Development	MB0117	Designing and Implementing a Training Program, Management Development Program	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
International Human Resource Management	MB0118	International Business Operations, Managing Diversity and Cross-cultural issues in International context	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Product & Brand Management	MB0225	brand development, architecture and portfolios	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Global Marketing Management	MB0226	a global mindset related to marketing and business with an understanding of the relationship among local, international, and global perspectives	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Retail Management	MB0227	Retail Marketing Strategies, Retailing Management Decision Process	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Digital Marketing	MB0228	product-market situations in digital era, incorporation of digital marketing strategy into the organization's goals and objectives.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Analytics for Supply Chain Management	MB0335	Models and techniques for optimization of network and resources	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Management of Inventory System	MB0336	statistical and other quantitative techniques and methods employed in the broad area of materials management, in general and inventory control and management	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf

Course	Code	Description	Year	Link
Operations Strategy	MB0337	analytical tools and conceptual frameworks for both assessing and designing operating strategies	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Productivity Management	MB0338	Productive Maintenance concept and principles and the various tools available to achieve better efficiency of the machines	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Financial Institutions & Markets	MB0445	form and functions of various financial markets and Institutions	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Financial Statement Analysis & Reporting	MB0446	techniques of financial analysis like fund flow, cash flow, ratios, working capital decisions etc.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Cost Accounting	MB0447	preparation of standard costs and variance statements and skill for controlling cost and decision making.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Corporate Finance	MB0448	tools and techniques that help managers make decisions that create value for their organizations such as time value of money, opportunity cost, net present value, and internal rate of return.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202021-22%20final%201.pdf
Dissertation Part-II	560405	To delop product/simulate/experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2021-22.pdf
Basic Civil Engineering & Mechanics	100020	Building Materials, applications of remote sensing, measurement of area volume, shear force bending moment	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Building Planning & Design	110302	Green Buildings, NBC provisions, building bye laws	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Materials & Construction	110303	Fresh and Hardened concrete, damp prevention, anti termite treatment, water proofing	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Surveying	110304	Traversing, curve setting, linear and angular measurement	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Strength of Materials	110305	Stress Strain, euler's buckling load	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Software Lab	110306	drawing of building elements on AutoCAD	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Summer Internship Project - I	110308	Students work on in house projects under various domains.	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Estimating, Costing & Contracting	110501	rate analysis, preparation of detailed estimates of buildings, contract	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Structural Design & Drawing (RCC)	110502	design of beams, slabs, columns, footings, staircases	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Fluid Mechanics - II	110503	pipe flow problems, uniform flow in open channels	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Transportation Engineering	110505	geometric design of highways, traffic studies, design of flexible and rigid pavements	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Minor Project - I	110506	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Summer Internship Project - II	110507	students work on improving their soft skills	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Environmental Engineering	110509	water treatment plant design, design of distribution system, sewage treatment	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Irrigation Engineering	110711	Design of lined and unlined canals	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Industrial Waste Treatment	110712	Tretament of various industrial wastes, like textile, paper pulp etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Advanced Structural Design (RCC)	110713	design of water tanks, bridges, prestressed concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Matrix Methods of Structural Analysis	110751	Advanced methods of structural analysis	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf

Advanced Concrete Technology	110752	Study on high performance concrete mixture	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Remote Sensing & GIS	110753	Digital image processing, image spectroscopy & GIS	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Integrated Waste Management for Smart City	900201	energy recovery from municipal solid waste, leachate management, biomedical, plastic, ewaste management	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Project Planning & Control	900202	network techniques in project planning & management, resource planning, cost control	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Urban Planning & Transportation Systems	900213	planning of urban transportation systems, intelligent systems	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Software Application for Solving Civil Engineering Problems	110701	Study on Prima Vera, STADD Pro & MATLAB	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Summer Internship Project - III	110702	Field oreinted case studies like bridge, overhead tanks, highway and multistorey buildings, etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Creative Problem Solving	110703	Providing engineering solutions of critical problems	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Computational Techniques	510111	Game Theory, Theory of Probability, Z transform	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Constrcution Materials & Machines	510112	Concrete mix design, special concrete, prefabrication	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Contract Management	510113	claims & arbitrations, construction contracts BOT projects	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Maintenance Management	510114	Provision of NBC, Plumbing services	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Infrastructure Development	510115	strategic issues in infrastructure development, risk management in infrastructure project	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf

Formwork for Concrete Structures	510116	formwork for special structures, formwork managment	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Organizational Behaviour & Management	800108	group dynamics, comparative management styles and approaches	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Safety & Quality Management	800109	quality standards, ISO, Quality improvement	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Construction Lab	510119	tests in concrete, CBR test of soil	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Infrastructure Project Management	510301	strategic issues in infrastructure development, risk management in infrastructure project	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	510302	Hydrograph analysis, flood estimation, C&D waste management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	510304	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Environmental Chemistry & Microbiology	530111	instrumental methods of analysis, microbiology of water and waste water	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Solid & Hazardous Waste Management	530112	energy recovery from municipal solid waste, leachate management, biomedical, plastic, ewaste management	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Advanced Treatment Process - I (Waste Water Engineering)	530113	sewage treatment techniques, sewage disposal	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Industrial Waste Management	530114	Tretament of various industrial wastes, like textile, paper pulp etc	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Environmental Auditing & Management System	530115	environmental management system approaches, EMAS, CSR	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Environmental Hydraulics	530116	Pollution transport in surface water	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf

Course Name	Code	Topics	Year	Link
Sustainable Waste Management System	800110	low cost sanitation methods, green design	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Environmental Engineering Lab	530118	water and waste water quality analysis	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Principles & Design of Biological Treatment System	530301	Biological Sewage Treatment techniques	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	530302	Hydrograph analysis, flood estimation, C&D waste management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	530304	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Planning & Design	110211	Green Buildings, NBC provisions, building bye laws	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Basic Civil Engineering Lab	100026	determination of setting time of cement, compressive strength of cement	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Geotechnical Engineering	110402	permeability of soil, stress distribution in soil, shear strength of soil	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Fluid Mechanics - I	110403	Flow measurement, stoke's law, dimensional analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Structural Analysis	110404	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Water Resources Engineering	110406	Flood estimation, hydrograph analysis, design of canals	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Survey Practice Lab	110407	Traversing by total station, Profiling of road	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Structural Design & Drawing (Steel)	110602	design of tension members, compression members, plate girders, built up beams	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Solid Waste Management	110612	collection of solid waste, treatment and disposal of waste, waste to energy, plastic waste, ewaste management	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Construction Planning & Management	110613	time cost optimization using network techniques	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf

Railway, Airport & Tunnel Engineering	110614	geometrical design, curves, railway stations, airport planning, construction of tunnels	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Maintenance & Repair of Concrete Structures	110651	Repair of Concrete Structures	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Geotechnical Engineering - II (Foundation Engineering)	110652	Shallow foundations, deep foundations, pile foundations'	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Disaster Management	100007	disaster impacts, disaster risk reduction	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Minor Project - II	110607	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Numerical Methods in Engineering	900117	Engineering Solutions of specific field cases	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Maintenance Management	900118	Maintenance Services in Buildings, NBC provision	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Safety in Construction	110851	OSHA regulations, BIM, Safety practices in Construction	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Introduction to Accounting & Finance for Civil Engineers	110852	Financing planning, capital budgeting	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Water Supply Engineering	110853	water treatment plant design, design of distribution system	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Natural Hazards (Deptt Elective Course)	110854	Tsunami assessment & mitigation, landslide management	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Natural Hazards (Open Category Course)	900614	Tsunami assessment & mitigation, landslide management	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Plastic Waste Management	900615	Road construction using plastic waste, recycling of plastic waste	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Remote Sensing: Principles & Applications	900617	Remote sensing, LIDAR, Imaging radar etc	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf

Internship / Project	110801	work on field based projects	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Professional Development	110802	overall evaluation of capabilities of students	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20NOV%202020.pdf
Project Economics & Financing	510211	capital budgeting, project risk, financial accounting	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Construction Cost Management	510212	multi criteria decision making methods, multi objective optimization methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Construction Project Management	510213	network techniques in project planning & management, resource planning, cost control	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Safety in Construction	510217	OSHA regulations, BIM, Safety practices in Construction	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Sustainable Materials & Green Building	800208	Green buidlings, provisions of LEED, GRIHA	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Computational Laboratory for Construction Management	510219	MATLAB, Prima Vera, BIM	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Dissertation	510401	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Air Pollution & Noise Pollution	530211	air pollution control techniques, air quality monitoring, noise pollution control	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Advanced Treatment Process - II (Water Supply Engineering)	530212	water treatment plant design, design of distribution system	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Environmental Impact Assessment & Ethics	530213	Planning & developing of EIA reports	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Plastic Waste Management	530214	Road construction using plastic waste, recycling of plastic waste	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf

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Global Climatic Changes & Disaster Management	800209	Climate modelling, disaster mitigation	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Advanced Environmental Engineering Lab	530217	air quality analysis, AAS analysis	2020	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20MAY%202020.pdf
Dissertation	530401	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Engineering Mathematics-I	100011	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Energy, Environment, Ecology & Society	100015	To study an environment and ecosystem, To study natural resources	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Technical Language	100016	Language skills	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Language Lab	100017	Language skills	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Devices	200211	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Devices	140211	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Engineering Materials	200212	Different materials and their characteristics used in manufacturing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Engineering Materials	140212	Different materials and their characteristics used in manufacturing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Engineering Mathematics - III	100003	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Cyber Security	100004	To prepare students with the technical knowledge and skills needed to protect and defend computer systems and networks.	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf

Electronics - II	200401	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics - II	140401	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Analog Communication	200402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Analog Communication	140402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Communication Networks	200403	Data communication	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Communication Networks	140403	Data communication	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Stochastic Processes in Communication	200404	Digital communication systems	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Hardware Lab	200405	Learn PCB design used in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Hardware Lab	140405	Learn PCB design used in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Measurement and Instrumentation	140404	Understanding of Measurement errors in electronics instruments	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Digital Signal Processing	200601	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Digital Signal Processing	140602	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Data Communication	200602	layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf

Minor Project - II	200606	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Minor Project - II	140606	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Optical Communication	200611	Explain the different modes of propagation in an optical fiber	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Optical Communication	140611	Explain the different modes of propagation in an optical fiber	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Antennas and Wave Propagation	200612	Antenna design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Antennas and Wave Propagation	140612	Antenna design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Telecom Switching and Networks	200613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Telecom Switching and Networks	140613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Spread Spectrum Communications and Jamming	200651	Secure communications over a large freequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Spread Spectrum Communications and Jamming	140651	Secure communications over a large freequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Digital IC Design	200652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Digital IC Design	140652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Fuzzy Sets,Logic and Systems & Application	200653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf

Fuzzy Sets,Logic and Systems & Application	140653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Intelligent Control	900104	Fuzzy logic, neural networks	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Embedded System	900105	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Microprocessor and Interfacing	140601	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Internship / Project	200801	Able to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Internship / Project	140801	Able to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Innovative Technical Contribution	200802	To encourage higher-level thinking and creativity through ICT.	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Innovative Technical Contribution	140802	To encourage higher-level thinking and creativity through ICT.	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Modern Digital Communication Techniques	200851	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Modern Digital Communication Techniques	140851	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Mathematical Methods and Techniques In Signal Processing	200852	Signal processing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Mathematical Methods and Techniques In Signal Processing	140852	Signal processing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Power Management Integrated Circuits	200853	Power management circuits	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf

Power Management Integrated Circuits	140853	Power management circuits	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Linear Dynamical Systems	900601	Applications to circuits, signal processing, communications, and control systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Sensors and Actuators	900602	Improve skills in microtechnology to fabricate sensors and systems	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Equipment Integration and Prototype Building	900603	Develop skill to understand working prototype of electronic equipment	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Computer Vision and Image Processing - Fundamentals and Applications	900604	To introduce the concepts of image processing and basic analytical methods to be used in image processing	2021	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Engineering Physics	100013	Physics relevant to engineering applications.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Basic Mechanical Engineering	100021	To provide a comprehensive knowledge of basic mechanical systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Basic Electrical & Electronics Engineering	100022	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Basic Computer Engineering	100023	An ability to design, implement, and evaluate a computer-based system, process, components	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Workshop	200111	Circuit design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Electronics Workshop	140111	Circuit design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS%20minutes%20Nov%202020%201.pdf
Engineering Mathematics-II	100001	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Electronics - I	200301	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf

Electronics - I	140301	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Circuits and Systems	200302	Develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Circuits and Systems	140302	Develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Network Theory	200303	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Network Theory	140303	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Signals & Systems	200304	To describe signals mathematically	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Signals & Systems	140304	To describe signals mathematically	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Software Lab (Introduction to MATLAB)	200305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Software Lab (Introduction to MATLAB)	140305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Ethics, Economics Entrepreneurship & Management	100005	Developing skill for managing social and economic activities	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Electromagnetic Theory	200502	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Electromagnetic Theory	140502	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Microprocessor & Interfacing	200503	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf

Course	Code	Outcome	Year	Link
Linear Control Theory	200504	Learning of control system-theory and its implementation used for electronics devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Linear Control Theory	140504	Learning of control system-theory and its implementation used for electronics devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Communication	200505	understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Communication	140505	understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Minor Project - I	200506	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Minor Project - I	140506	Integration of knowledge and skills from various areas	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Data Communication	140503	Layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Intellectual Property Rights	100008	To learn the procedure of obtaining Patents, Copyrights, Trade Marks &Industrial Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
VLSI Lab	200701	develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
VLSI Lab	140701	develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Simulation & Fabrication Lab	200703	Circuit design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Simulation & Fabrication Lab	140703	Circuit design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf

Satellite and Radar Communication	200711	Introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Satellite and Radar Communication	140711	Introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
VLSI Design	200712	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
VLSI Design	140712	Develop the skill in the fundamental and advanced principles of VLSI circuit design in digital and analog domain required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Microwave Engineering	200713	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Microwave Engineering	140713	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Image Processing	200751	To introduce the concepts of image processing and basic analytical methods to be used in image processing	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Image Processing	140751	To introduce the concepts of image processing and basic analytical methods to be used in image processing	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Introduction to Wireless Cellular Communication	200752	Cellular & Mobile Communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Introduction to Wireless Cellular Communication	140752	Cellular & Mobile Communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Milimeter wave Technology	200753	5G network and radar and satellites	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Milimeter wave Technology	140753	5G network and radar and satellites	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf

Satellite System	900206	Introduce students to the fundamentals of satellite communication	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Consumer Electronics	900207	To enhance the knowledge, skills and attitudes on core competencies such as; assemble/disassemble consumer electronic products	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
MEMS & Mechatronics	900218	Skill on various fabrication techniques required in MEMS	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Multimedia Communication	900219	Explore the various channels available to communication professionals	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/BOS/BOS%20May%202020_compressed.pdf
Digital Electronics	160213	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Digital Electronics	160301	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Data Structures	160211	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf

Course	Code	Description	Year	Link
Data Structures	160302	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Computer Graphics & Multimedia	160411	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Computer Graphics & Multimedia	160303	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Object Oriented Programming & Methodology	160212	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Object Oriented Programming & Methodology	160304	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf

Course	Code	Description	Year	Link
Hardware Lab	160305	Working of Hardware and sofware components of computer and other peripherals.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Discrete Structures	160501	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Software Engineering	160412	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Software Engineering	160502	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Theory of Computation	160503	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf

Course	Code	Description	Year	Link
Microprocessor & Interfacing	160504	Understanding of different processors and basic architecture of 16 bit microprocessor and their interfacing with memory and I/O devices, understanding of microcontrollers. Designing of systems using microprocessor and microcontroller.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Networking with TCP/IP	160711	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Data Mining & Warehousing	160712	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Practical Machine Learning with Tensorflow	160751	Model Building on real dataset using open source tool Tensorflow	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Scalable Data Science	160752	Implementation of data science concepts on large scale data	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Introduction to Internet of Things	160753	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
IoT Lab	160701	Understanding various sensors and technology behind them for creating an IoT based application for real world problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf

Course	Code	Description	Year	Link
Introduction to Computer Programming	230102	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to programming and software development.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
IT workshop	160111	This course deals with fundamentals of computer. Which includes generations of computer, evolution and development of microprocessor, input and output devices, primary and secondary storage devices, programming languages etc. It also deals with the hardware and software aspects of the computer like operating system, application software and system software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Soft Computing	900208	Implementation of advanced algorithm for real life problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Network Security	900209	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Data Mining & Warehousing	900210	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
R Programming	900220	Statistical techniques for scientific analysis of data	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf

Course	Code	Description	Year	Link
Artificial Intelligence	900221	The course introduces the variety of concepts in the field of artificial intelligence. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Computer Networks	900222	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Introduction to Internet of Things (IoT)	230101	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Introduction to Artificial Intelligence	240101	The course introduces the variety of concepts in the field of artificial intelligence. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Database Systems	630111	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf

Course	Code	Description	Year	Link
High-speed Networks	630113	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Mobile Computing & M-Commerce	630114	This course covers interesting topics across a variety of mobile systems (wireless LANs, cellular systems, and sensor networks), and revisit the design of the various layers of the networking stack in the context of wireless communication.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Adhoc & Sensor Based Networks	630115	Students will learn about a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield, object tracking, habitat monitoring, patient monitoring, fire detection and so on,where Ad-hoc networks are useful.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Information Security & Systems	630116	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Soft Computing	800105	Implementation of advanced algorithm for real life problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdff
Blockchain Technology	800106	Course will cover the basic design principles of Blockchain technology and its applications over different sectors. Additionally, the course also provides tutorials on setting up blockchain applications using one of the well-adopted permissionless blockchain platforms - Ethereum, and one permissioned blockchain platform - Hyperledger.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf

Lab-I (IoT Lab)	630118	Understanding various sensors and technology behind them for creating an IoT based application for real world problem solving	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Design & Analysis of Algorithms	160401	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Database Management System	160402	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Operating System	160403	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Computer System Organization	160404	This course is concerned with the structure and behavior of a computer system as observed by the user. It serves as the link between hardware and software. It is involved with the elements of system interconnection. It enables students to design, create, and deploy applications that are better, quicker, cheaper, and more efficient in order to make informed decisions.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Programming Lab	160414	Design and development of efficient softwares using programming that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Programming Lab	160405	Design and development of efficient softwares using programming that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf

Course	Code	Description	Year	Link
Compiler Design	160601	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Computer Networks	160602	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Network & Web Security	160611	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Agile Methodology	160613	This course will explain underpinning philosophy and principles of Agile, lifecycle of an Agile project, including alternative configurations. The products produced during an Agile project and the purpose of these. The techniques used and their benefits and limitations. The roles and responsibilities within an Agile project. The Agile Project Management process can enable planning, management and control for predictable Agile project deliveries.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Data Analytics with Python	160651	Analysis on Real Data Set	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf

Course	Code	Description	Year	Link
Introduction to Machine Learning	160652	The course introduces the variety of concepts in the field of Machine learning. It discusses the introduction of ML, and how to model a new problem as an ML problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods etc. which can be used to model a new problem. It also teaches many algorithms to solve each formulation.	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Cloud Computing	160614	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Cloud Computing	160653	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Artificial Intelligence: Knowledge Representation And Reasoning	160654	The course introduces the variety of concepts in the field of artificial intelligence. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Social Networks	160851	Analysis of Modern Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Privacy and Security in Online Social Media	900618	Privacy and Security Analysis of multiple online Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf

Course	Code	Description	Year	Link
Privacy and Security in Online Social Media	160852	Privacy and Security Analysis of multiple online Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Introduction to internet of things	900619	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Data Science for Engineers	900620	Mathematical foundations required for Data Science, Model Development and Assessment	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Social Networks	900621	Analysis of Modern Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Software Engineering	900108	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf

Course	Code	Description	Year	Link
Data Mining & Warehousing	900116	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/7.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2028%20NOVEMBER%202020%201_compressed.pdf
Data Structures	160210	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/8.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2010%20JUNE%202021%202.pdf
Digital Logic Design	230201	This course is associated with digital integrated circuits (ICs), which use binary integers to execute certain computer operations. This course prepares students to design hardware like circuit boards and microchip processors. This hardware is used to manage user input, system protocol, and other data in navigation systems, mobile phones, and other high-tech systems.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/8.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2010%20JUNE%202021%202.pdf
Data Structures	230202	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/8.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2010%20JUNE%202021%202.pdf
Object Oriented Programming and Methodology	230203	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/8.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2010%20JUNE%202021%202.pdf

Algorithms Design Techniques and Analysis	630211	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Advanced Topics in Data Mining & Warehousing	630212	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Image Processing and Retrieval Techniques	630213	The intent of this course is to familiarize the students to explain the fundamental concepts/issues of Computer Vision and Image Processing, and major approaches that address them. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration, etc.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Data Science for Engineers	630214	Mathematical foundations required for Data Science, Model Development and Assessment	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Privacy and Security in Online Social Media	630215	Privacy and Security Analysis of multiple online Social Network	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf

Cloud Computing and Distributed System	630216	Clouds, Virtualization and Virtual Machine and Recovery in Clouds, Cloud Storage, P2P Systems, basics of distributed systems and their use in Industry Systems	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdf
Introduction to Internet of Things	800206	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdff
Cloud Computing	800207	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/6.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2030%20MAY%202020%203_compressed.pdff
Organic Process Technology	170302	Synthesis of oils	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Fluid Mechanics	170303	Pumps, flowmeters and valve	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Material & Energy Balance	170304	Combustion calculation	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Fluid Particle Mechanics	170305	Particales size reduction and screen analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Chemical Synthesis Lab	170306	Synthesis of different chemicals	2018	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Heat Transfer	170402	Lumped parameter for distributed heat transfer equipments	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf

Subject	Code	Topic	Year	Link
Mass Transfer –I	170403	Drying of wet solids, Crystalization	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Instrumentation & Process Control	170404	PID Controllers,Stablity analysis of process	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Mechanical Design of Process Equipment	170405	Design of head and closures	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Process Control Lab	170407	Flow controllers, level control	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Chemical Engineering Thermodynamics	170501	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Mass Transfer –II	170502	Drying of wet solids, Evaporation	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Chemical Reaction Engineering – I	170503	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Computational Methods in Chemical Engg	170504	Optimization of chemical processes	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Inorganic Process Technology	170505	Cement industry,Pulp and paper industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf

Process Equipment Design	170611	Design of head and closures	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21%20Employbility_compressed%201.pdf
Plant Design and Economics	170751	Application of economic analysis for the process plant design & development along with individual design of process equipments	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Chemical Process Safety	170752	Familiarization of various process hazards & safety practices and regulations prevalent in chemical industry	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Numerical Methods for Engineers	170753	Application of various numerical methods for solving chemical engineering problems	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Equilibrium Stage Operation	170712	Technical Skills of Chemical Seperation Processes	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Industrial Pollution prevention and Control	170713	Familiarization with industrial pollution methods and environmental regulations	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Petrochemical Technology	170714	Comprehensive knowledge of Petrochemical sectors	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/Summary%20iii%20july%20-%20dec%202020-merged.pdf
Membrane Technology	170653	Utilization of membrane by using different Technology	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20BOS_28%20Nov%202020_merged_compressed.pdf
Membrane Seperation Process	BCHL802	Utilization of membrane in different filteration process	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2%20JULy%202019%20BOS_merged_compressed%201.pdf

Polymer Technology	170614	Application of Polymer by using Technolgy	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20BOS_28%20Nov%202020_merged_compressed.pdf
Chemical Process Calculations	170211	Combustion calculation	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21-signed_merged.pdf
Process Computation Lab	170701	PID Controllers,Stablity analysis of process	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21-signed_merged.pdf
Creative Problem Solving	170708	Case study of engineering problems	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21-signed_merged.pdf
Process Modeling & Simulation	170602	Modelling of reactors, heat exchangers	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2020-21-signed_merged.pdf
Petroleum Processing Technology	900211	Application of petroleaum technology in the process of chemical industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2021%20JUNE%20BOS%20Meeting%20June%202021_compressed.pdf
Industrial Safety and Hazards	900223	Fall tree analysis,EPA	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2021%20JUNE%20BOS%20Meeting%20June%202021_compressed.pdf
Optimization in Chemical Engg.	170851	Application of optimization techniques to chemical processes	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Waste to Energy Conversion	170852	Utilization of waste materials for unconventional energy production	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf

Biomass Conversion and Biorefinery	170853	Biodiesel synthesis	2020	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/summary%20iii%20jan%20-%20june%202021-merged%201.pdf
Social Networks(DE)	150851	Handling Real-world Network Datasets, Strength of Weak Ties, Homophily, Link Analysis, Cascading Behaviour in Networks, Power Laws	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Real Time Operating system(DE)	150852	Characteristics of real-time systems, Modelling time constraints	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Reinforcement Learning(DE)	150853	Reinforcement Learning algorithms: Bandit algorithms, Full RL & MDPs, Bellman Optimality, Dynamic Programming, Eligibility Traces, Function Approximation	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Departemental Lab	150701	Department lab for implementing basic programming concepts	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Summer interenship Project-III	150702	The primary purpose of doing an academic internship is to better understand the theories, ideas, and practices of your discipline or major by actively engaging in a "hands-on," work-based, learning experience.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Creative Problem Solving	150703	Problem Soving, Algoithm design, Data Strucutres	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Networking with TCP/IP(DE)	150711	TCP/IP model, Subnetting and Supernetting, TCP and UDP Protocols, Routing Protocols, Troubleshooting Principles	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Data Minning & Warehousing(DE)	150712	Data Mining, Data Warehouse and OLTP Technology for Data Mining, Data Pre-processing, Mining Association Rules in Large Databases, Classification & Predication and Cluster Analysis	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf

Distributed System(DE)	150713	Distributed Computing Model, Distributed Share Memory, Distributed File System, Inter Process Communication and Synchronization, Distributed Scheduling and Deadlock	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Practical Machine Learning with tensorflow(DE*)	150751	Tensorflow, Machine Learning, Data Input and Preprocessing with Tensorflow, Machine Learning Model Building, Prediction with Tensorflow, Advance Tensorflow	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Scalable Data Science (DE*)	150752	Probability, Linear algebra, Optimization: Basics, Memory-efficient data structures, Approximate near neighbors search, Randomized Numerical Linear Algebra, Map-reduce and related paradigms Map reduce, Distributed Machine Learning and Optimization	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Introduction to Internet of Things (DE*)	150753	Workshop on Internet of Things(IoT) and Data Analytics	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Compiler Design	150601	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Computer Network	150602	Networking Protocols, OSI Reference Model & TCP/IP Reference Model	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Network & Web Security (DE)	150611	Security Principles, Cryptography, Hash Functions, IP & Web Security, Phishing	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Mobile Computing (DE)	150613	Personal Communication Services(PCS), General Packet Radio Services(GPRS), Wireless Application Protocol(WAP), Third Generation (3G) Mobile Services, Wireless Local Loop (WLL)	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf

Cloud Computing	150614	Cloud Computing Architecture, Service Management, Data Management, Resource Management, Cloud Security	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Data Analytics with Python (DE*)	150651	Workshop on Internet of Things(IoT) and Data Analytics	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Introduction to Machine Learning (DE*)	150652	Learning, ML model, Model Selection, Model optimization and Evaluation, Supervised Machine Learning, Ensemble Learner, Unsupervised Machine Learning	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Data Structure (OC)	900106	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Python programming (OC)	900107	Python Introduction, Tuples and Lists, Functions, Files and Exceptions, Data Visualization	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Minor Project -II	150606	To develop ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Discrete Structures	150501	Sets, Functions, Propositional logic, Graph Theory, Group Theory	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Software Engineering	150502	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Theory of Computation	150503	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Microprocessor & Interfacing	150504	Microprocessors (8086), Basic Peripherals and Interfacing, Special Purpose Programmable Peripheral Devices and Interfacing, Serial and Parallel Data Transfer, Microcontrollers	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf

Course	Code	Description	Year	Link
Minor Project-I	150505	In this course the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good engineer	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Summer interenship Project-II(Evaluation)	150506	The primary purpose of doing an academic internship is to better understand the theories, ideas, and practices of your discipline or major by actively engaging in a "hands-on," work-based, learning experience.	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Self Learning/ Preseantation(SWAYAM/ NPTEL/MOOC)	150507	Self Learning through MOOC courses	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Indian Constitution and Traditional Knowledge(Audit Course)	100006	Basic Structure of Indian Knowledge System, Indian Philosophy or Darshanas, Indian Art, Political Science, Government and Its Organs, Features of Indian Constitution	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Design and Analysis of Algorithms	150401	Algorithms and its importance, Algorithm Design Methods (Divide and Conquer Method, Greedy Method, Dynamic Programming, Backtracking), Algorithm Analysis	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Database Management System	150402	SQL, Normalization, Transaction Processing & Concurrency Control	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Operating System	150403	Basics of operating systems, Process management, Memory management, Storage management	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Computer System Organization	150404	Central Processing Unit (CPU), Computer Arithmetic, Microprocessors, Input-Output Organization, Memory Organization	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Programming Lab	150405	Setting up programming environment, running python programs from a terminal, Python: basics, functions, loops, Object oriented concepts, and working with libraries	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Subject	Code	Topics	Year	Link
Digital Electronics	150301	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Structures	150302	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Computer Graphics	150303	Interactive Computer Graphics, Scan Conversion Technique, 2D & 3D Transformations, Clipping	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Object Oriented Programming and Methodology	150304	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Hardware lab	150305	Hardware components, Connections, Buses, Memory Devices, Microprocessor, Input/Output Devices, Networking, Troubleshooting	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Self Learning/ Presentation(SWAYAM/ NPTEL/MOOC)	150306	Self Learning through MOOC courses	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Summer Internship Project-I	150307	In house internship	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Structures	150211	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Object Oriented Programming and Methodology	150212	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Digital Electronics	150213	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf

Course	Code	Topics	Year	Link
IT Workshop	150111	Evolution of internet, Cyber security and cyber laws, Professional word documents excel, spreadsheets, and power point presentations, Operating System and Software Installations, HTML, Python Langauge	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/28.11.2020CSEBoS%20PROCEEDING%20MEETING%20HELD%20ON%2028.11.2020.pdf
Digital Electronics	290201	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/BoS_Dec2021.pdf
Data Structures	290202	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/BoS_Dec2021.pdf
Object Oriented Programming and Methodology	290203	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/BoS_Dec2021.pdf
Introduction to Computer Science and Design	290101	Computers and its compnents, Von-Neumann Model, Algorithm, Problem Solving, computer network, Software	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/BoS_Dec2021.pdf
Introduction to Computer Programming	290102	Basic Input/Output, Variables, Expressions and String Basics, Conditional statements, Loops, Functions, Handle Exceptions	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/BoS_Dec2021.pdf
Dissertation Part-II	620401	The dissertation gives the chance to explore a topic of interest in depth; it gives you practice in essential writing skills; and it should sharpen your capacity for analysis and posing questions.	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Image Processing and Retrieval Techniques	620301	Two Days Workshop on Recent Trends in Image Processing and Security	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Network Security	620302	Attacks, Services and Mechanisms, Security Attacks, Security Services, Integrity check, digital Signature, authentication, hash algorithms, Secret Key Cryptography, Hash Functions and Message Digests, Public key Cryptography, Authentication	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Seminar	620303	Seminar Based evaluation	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Dissertation Part-I	620304	A dissertation is a long-form piece of academic writing based on original research conducted by students	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Algorithms Design Techniques and Analysis	620211	Algorithms Analysis, Asymptotic Notations, Algorithm Design Techniques, Divide And Conquer, Greedy Algorithms, Combinational Search and Optimization, Dynamic Programming, NP - Completeness	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Advanced Topics in Data Mining & Warehousing	620212	Workshop on Internet of Things(IoT) and Data Analytics	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Image Processing and Retrival Techniques	620123	Two Days Workshop on Recent Trends in Image Processing and Security	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Internet of Things	620214	Industrial Implementation Perspective of IoT	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Deep Learning	620215	Introduction To Neural Networks, Implementing Gradient Descents, Training Neural Networks, Sentiment Analysis, Keras, Tensorflow.Convolutional Neural Network, Recurrent Neural Networks, Recurrent Neural Networks	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Cloud Computing	620216	Cloud architecture standards and interoperability- Cloud types, Requirement analysis, Development environments for service development, Workload distribution architecture-Dynamic scalability-Cloud bursting	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Social Networking	620217	Handling Real-world Network Datasets, Strength of Weak Ties, Homophily, Link Analysis, Cascading Behaviour in Networks, Power Laws	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf

Lab-II	620221	Lab Based Implementation	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Self Learning/ Presentation	620222	Self Learning based evaluation	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Database Systems	620111	Overview of storage and indexing, Hash Based Indexing, Query Optimization, Object Databases, Distributed Databases	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Distributed Computing	620112	Evolution of Distributed Computing Systems, System models, Message Passing, Remote Procedure Calls, Distributed Shared Memory, Synchronization	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
High Speed Networks	620113	Frame Relay Networks, Asynchronous transfer mode, ATM Protocol Architecture, Queuing Analysis- Queuing Models, TCP Flow control, TCP Congestion Control, Retransmission, Integrated Services Architecture, Differentiated Services	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Mobile Computing & M-commerce	620114	overview of wireless telephony: cellular concept, GSM, channel structure, location management: HLR-VLR, hierarchical, handoffs, channel allocation in cellular systems, CDMA, GPRS. Wireless Networking, Data management, Mobile Agents computing	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Adhoc and Sensor Based Networks	620115	MAC & ROUTING IN AD HOC NETWORKS, TRANSPORT & QOS IN AD HOC NETWORKS, MAC & ROUTING IN WIRELESS SENSOR NETWORKS, SECURITY IN AD HOC AND SENSOR NETWORKS	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Network Security	620116	Attacks, Services and Mechanisms, Security Attacks, Security Services, Integrity check, digital Signature, authentication, hash algorithms, Secret Key Cryptography, Hash Functions and Message Digests, Public key Cryptography, Authentication	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf

Computer Architecture and Parallel Processing	620117	COMPUTER DESIGN AND PERFORMANCE MEASURES, PARALLEL PROCESSING, PIPELINING AND ILP , MEMORY HIERARCHY DESIGN, MULTIPROCESSOR, MULTI-CORE ARCHITECTURES	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Soft Computing	620118	Fuzzy logic and its applications, Artificial neural networks and its applications, optimization problmes solving, Soloving multi-objectiove optimization problerms, Applications of Soft computing	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Blockchain Technology	620119	Blockchain Technology and its Importance, Digital Signature, Blockchain Consensus, Smart Contract, Decentralized Identity Management, Blockchain Interoperability	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Machine Learning using Python	620120	Applications of Machine Learning, Supervised vs Unsupervised Learning, Python libraries suitable for Machine Learning, Regression Analysis, Classification Analysis, Unsupervised Learning, Recommender Systems	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/6.%20BoS%20Minutes%20Meeting%20held%20on%2030th%20May%202020.pdf
Mathematical Foundations	680111	Apply the concepts of mathematics to the suitable technique for relevant industries and contribution to the society	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Data Structures and Algorithms	680112	Analyze the complexity of various algorithms for different data structures	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Database Management Systems	680113	Analyze an information storage problem and derive an information model expressed in the form of an entity relation diagram and other optional analysis forms, such as a data dictionary, file and page organizations, indexing methods including B tree, and hashing.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Operating Systems	680114	Discover the different features of real time and mobile operating systems	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf

Course	Code	Outcome	Year	Link
Management Functions and Oral & Written Communication	680115	Implement professional work habits necessary for effective collaboration and cooperation with others	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Lab – I (Object Oriented Programming Lab)	680116	Develops object oriented application system as part of a team in industry.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Lab – II (DBMS Lab)	680117	Construct database application system solutions to a broad range of query problems.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Software Engineering	680211 (DC-4)	Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Internet of Things	680212 (DC-5)	Evaluate the role of Security and privacy in the internet of things to provide solutions related to reliability and privacy for real world problems	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Computer Networks	680213 (DC-6)	Illustrate different types of network devices and their functions within a network, Internetworking devices, Routing concepts, techniques and protocols and other concepts of computer networks	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Computer Graphics & Multimedia	680215 (DE-I)	Demonstrate their ability to use modern 3D computer graphics techniques, models, and algorithms to solve graphics problems.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Corporate Planning	680219 (DE-II (BM))	Select and apply current technologies to support an organization's integrative trade initiatives.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Java Programming Lab	680223 (DLC-3)	Employ a hierarchy of Java classes to provide a solution to a given set of requirements.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf

Business Programming Laboratory	680224 (DLC-4)	Demonstrate Rich Web Application and Services	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Artificial Intelligence and Applications	680311	Explore the latest trends in soft computing, expert systems and machine learning.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Management Support Systems	680312	Apply various information systems like DBMS together to accomplish the information objectives of an organization in Business Management	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Data Mining and Warehousing	680313	Explore recent trends in data mining such as web mining, spatial-temporal mining	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Cloud Computing	680314 (DE)	Explore some important cloud computing driven commercial systems such as Google Apps, Microsoft Azure and Amazon Web Services and other businesses cloud applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Web Technologies	680317 (OC)	Implement small to large scale projects to provide live solutions in web application development fields.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Minor Project	680322	Apply SDLC and project Management principles.	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Lab-V (Python Programming Lab)	680323	Implement Python programs using basic libraries	2020	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS%2030%20May%202020.pdf
Architectural Design I	210101	FORM BUILDING(MODELS)and Product Design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Description	Year	Link
Graphics - I	210103	Solve basic problems involving graphics and spatial manipulations for architectural Isometric view: Exterior view of a simple residential building showing all building components. Axonometric view: Axonometric view of a room interior showing all interior components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Workshop I	210107	U NIT-3Introduction, type of patterns, pattern making, preparation of moulds and moulding equipment detail.Associate properties of different materials and products for designing and model making	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Professional Communication	210111	UNIT 05-Essentials of good writing, Technical Descriptions of Simple Engineering Objects; Formal (Application, Email, CV, Résumé, Memo, Report writing) Implement professional work habits, including those necessary for effective collaboration and corporation with others (HOTS4),Writing:	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design III	210301`	Study of contemporary practices & design for town houses and villas in urban areas, to sensitize the students towards life style, individual preferences, space – activity relationship and exploration of how material, color, texture and light affect the quality of spaces is the main focus. It is also intended as an exercise in massing & configuration of façade elements such as the balancing of solids & voids, adoption of a system of proportioning and elements of contemporary detailing. This design exercise will also attempt to involve the student in the built form / open space relationship & explore the connectivity between indoor & outdoor spaces./ Design independent residential buildings in urban areas with concepts that respond to	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction II	210302	UNIT-3DETAILS OF DOORS, WINDOWS & VENTILATORS: Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door., Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door.,Timbers Windows & ventilators: Casement(side hug & top hug), Sliding pivoted (horizontal and vertical) foldingand bay windows, fixed light of different sizes and shapes.,Combined doors and windows and ventilators.:Draw types of timber doors, windows, ventilators and its joinery detail.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Description	Year	Link
Graphics - III	210303	Exercise will be a group activity; to measure and draw the floor plan along with the plot boundaries, four side elevations, four sections, block plan, site plan of a large building or a settlement with the help of CAD. In addition to this drawing shall be prepared based on examples of buildings by giving a sketch design. Drawings shall be detailed enough to explain the complete design.:Develop Basic skills in visual composition using Graphics	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Surveying & Levelling	210304	UNIT-5Leveling and contouring.:Work out the contour surveying with the help of leveling instrument	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design V	210501	UNIT 1 - MATERIAL STUDIO, Analyzethe culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc UNIT - 2 HEALTHCARE BUILDINGS, Hospitals and Nursing homes are a special category of buildings where functional aspects such as planning, building services & the creation of a sterile environment become important design issues.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction IV	210502	UNIT-1 BUILDING MATERIALS –IV, UNIT -2 STEEL, UNIT-3 WALL & FLOOR UNIT-4 PARTITIONS & FALSE CEILING:UNIT-5 THERMAL INSULATION AND ACOUSTICS INSULATION	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services II	210503	UNIT-1 ELECTRICAL SERVICES, UNIT-2 ILLUMINATION AND LIGHTING DESIGN, UNIT-3 AIR CONDITIONING ,UNIT-4 PUMPS AND MACHINERIES, UNIT-5 ELECTRICAL AND AC DUCT LAYOUT OF SIMPLE BUILDINGS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Science and energy conservation	210504	UNIT-1 CLIMATE &THERMAL COMFORT, UNIT-2 SOLAR GEOMETRY &DESIGN OF SUNSHADING DEVICES UNIT-3 PRINCIPLES OF THERMAL DESIGN IN BUILDINGS ,UNIT-4 VENTILATION & DAY LIGHTING UNIT-5 DESIGN FOR CLIMATIC TYPES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Visual Communication Design for Digital Media (Elective IV)(SWAYAM)	210508	This course impart knowledge on the different aspects of visual communication design, emphasizing on virtual media platform, emphasize on understanding of visual cognition, which is the key factor to achieve user-friendly design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf

Human Settlement (Elective II)	210511	Student understands the contemporary issues in urban planning, overall understanding of classification of settlements, land-use, zoning and types of development plan, simple Town planning techniques,	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Interior Design (Elective II)	210512	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Architectural conservation and historic preservation (Elective II)	210513	Student understands the field of conservation, its techniques and develop a base for practical field work.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Architectural Design VII	210701	UNIT-1 - The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e, Commercial center, hospital, Study and incorporation of building bye-laws should be complete in this Sem. UNIT-2- The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e. Auditorium, sports cinema, sports complex & educational buildings.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Advance Building Construction I	210702	UNIT-1 SPECIAL STRUCTURES, UNIT- 2 ADVANCE CONSTRUCTION SYSTEM,UNIT- 3 PRE STRESSED CONCRETE UNIT- 4 TALL BUILDINGS, UNIT- 5 SHELLS AND FOLDED PLATES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Project Management & Building Economics	210703	Students obtain the ability to appreciate the three dimensional implications of design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Estimating and Costing & Specifications	210704	Student can estimate the costing and specification of small porjects and undersstands about the successful implementation of the project to know about the material required and cost to be incurred before starting a new project.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Professional Training	210901	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Structural System in Architecture (Elective V)	210751	This course helps students with the fundamental aspects of structural theories including statics and structural systems, the strength of material, structural mechanics and structural analysis, the various types of structural systems like a truss, space frame, plates, shell, tensile structure etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Urban Landuse and transportation planning (Elective V)	210752	This course help studetns to plan for our smart cities in a more comprehensive way including urban demographic transitions, real estate development, residential location choice, land price fluctuations and transportation planning. Additionally, the course focuses on transport infrastructure and freight planning.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Urban governance and Development Management (UGDM) (Elective V)	210753	This course help students in working at the city and regional level organizations like municipal corporations, development authorities etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Planning Principles & Theories	670111	Present and past paradigms in planning as the distinct perspective(s) from which problems and solutions are being defined. 'object-centred', the 'control-centred', and the 'decision-centred' paradigms.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Socio-Economic Basis for Planning	670102	Anticipations of and response to future needs for social, health and other human services with spatial planning, physical and social features like topography, drainage, climate, population settlements etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Planning Techniques	670103	Methods or processes followed by planners in preparing or evaluating their plans, programs, and policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Infrastructure & Transportation Planning	670104	Defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf

Housing	670115	fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Studio Course-I	670106	Film appreciation, literature review and area appreciation	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Studio Course-II	670107	Site Planning and prepare city development plan	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Elective-I (Inclusive Urban Planning)	670311	Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Elective-I (Planning for Tourism)	670312	Student will understand about creating strategies to develop tourism in a specific destination.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Elective-II Environment, Development andDisaster Management,	670313	Energy Generation and Consumption, Energy Planning and Management, and Mitigation and Adaptation to Climate Change, Plans, Policies and Strategies & Policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Elective-II Energy, Climate changeand Urban Development	670314	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Seminar	670303	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Pre-Dissertation	670304	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf

Architectural Design II	210201	PROJECT 1(Prototype): SINGLE SPACE DESIGN,PROJECT 2(Prototype): SMALL SCALE MULTI-SPACE DESIGN Enlighten the student on the design project overview & the design process to be followed through relevant presentations. Present an analytical discourse on an identical architectural design project covering Architectural, elements, spaces & terms Noted projects & architects, Space planning etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction I	201202	UNIT-1 LOW-COST CONSTRUCTION - Foundation and wallsin stabilized mud-rammed earth and compact earth blocksIntroduction toLow-cost construction techniques and materials with combinations of mud and terra – cotta. UNIT-2 INTRODUCTION OF BASIC BUILDING COMPONENTS, UNIT-3 WALL, UNIT -4 INTRODUCTION TO OPENINGS UNIT-5 ROOFS - Simple configurations and details of various forms of roofs: Flat, sloped, pyramids and dome.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Graphics - II	210203	UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING - Principles of perspective drawings and understanding of all relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. UNIT-2 TWO POINT PERSPECTIVE VIEW OF BUILDINGS - Construction of Two point perspective grid. UNIT-3 ONE POINT INTERIOR PERSPECTIVE - Construction of One point perspective grid, UNIT-4 SCIOGRAPHY, UNIT-5 MEASURED DRAWING- To measure and draw the Ground Floor Plan along with plot boundaries, four side elevations, two sections, block plan, site plan of existing single storied building	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Workshop - II	210204	Students obtain the ability of model making, basics of rendering, presentation skills using various materials.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design IV	210401	PROJECT 1(Prototype): VILLAGE SURVEY & RURAL HOUSING , PROJECT 2(Prototype): DESIGN OF COMMUNITY FACILITIES - Community facilities –Design of Community hall, Nursing home, Youth hostel, Old age home etc., encourage the student to explore concepts an agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Construction III	210402	UNIT-1 BUILDING MATERIALS, UNIT -2 RCC FOUNDATION - Introduction to RCC framed structures, concrete foundation: Types of footing – Isolated, combined, continuous, strip raft & piles , UNIT-3 BEAMS AND SLABS, UNIT-4 RETAINING WALL, EXPANSION JOINTS, AND WATERPROOFING - Waterproofing basement, construction of pools, fireplaces, and fuels. Fire safety construction techniques, UNIT-5 CLADDING SYSTEMS & FINISHES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services I	210403	UNIT-1 WATER SUPPLY - Sources of water supply – Water Quality - Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit, UNIT-2 DRAINAGE AND SEWAGE DISPOSAL, UNIT-3 SOLID WASTE DISPOSAL, UNIT-4 EMERGING PROCESSING TECHNOLOGIES, UNIT-5 PLUMBING AND FIRE FIGHTING LAYOUT OF SIMPLE BUIDINGS - Designing of toilet blocks in residential and public buildings, showing complete details of fittings and plumbing required for water supply and drainage.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Structure IV	210405	UNIT- 1 PROPERTIES OF STEEL SECTIONS & TYPES OF CONNECTIONS - Design of welded and bolted connections for members subjected to axial forces. Site visit to a steel fabrication unit. UNIT-2 TENSION AND COMPRESSION MEMBERS, UNIT -3 STEEL BEAMS, UNIT-4 STEEL TRUSSES & GIRDERS - Study of the various types of roof trusses , UNIT-5 INTRODUCTION TO LONG SPAN STEEL STRUCTURAL SYSTEMS- Space frame structural system in tubular steel – various types of connectors – single / double & triple grid space frames	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design VI	210601	PROJECT I: DESIGN FOR HOSPITALITY INDUSTRY - The project requires the understanding of the special nature and functioning of the hotel industry and to respond with suitable concepts of space planning, circulation, interior design, materials and lighting. PROJECT II: URBAN INFRASTRUCTURE PROJECTS - Contemporary transportation terminals and stadiums are large buildings with multiple entries & exits dealing with large crowds and having multiple levels with large spans, complex services & demanding environmental conditions.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Building Services III (Acoustic & Fire Fighting)	210602	UNIT-1 INTRODUCTION TO THE STUDY OF ACOUSTICS & SOUND TRANSMISSION, ABSORPTION, INSULATION UNIT-2 NOISE CONTROL AND SOUND REINFORCEMENT & ACOUSTICS IN BUILDING DESIGN AND CONSTRUCTION UNIT-3 FIRE FIGHTING SERVICES, UNIT-4 FIRE FIGHTING SYSTEMS & BUILDING NORMS. UNIT-5 FIRE FIGHTING LAYOUT OF BUILDINGS & DESIGN AND DETAILING FOR ACOUSTICS OF MULTIPURPOSE HALLS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Course	Code	Units / Description	Year	Link
Site Planning and Landscaping Architecture	210608	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Working Drawing	210604	UNIT- 1 BUILDING DRAWING Centre line plan, Foundation plan, Structural grid plan (in case of framed structures), Basement floor plan, Ground floor plan, Typical floor plan, All elevations, All sections: one at least through staircase and one through toilet, Terrace floor plan giving details of surface drawing etc, UNIT-2 SERVICES, UNIT- 3 SPECIFICATION, UNIT- 4 MATERIALS- Glass Plywood and laminates Hardware Electrical wires and accessories Water supply and plumbing: fittings and fixtures flooring and cladding.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective -IV (SWAYAM) (SUSTAINABLE ARCHITECTURE)	210651	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Elective-IV (GIS) (SWAYAM)	210654	Energy Generation and Consumption, Energy Planning and Management, and Mitigation and Adaptation to Climate Change, Plans, Policies and Strategies & Policies.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Elective-III (Housing)	210611	Student gains the knowledge of fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Elective-III(Architectural Journalism)	210614	Enhances the various techniques of Architectural Journalism, changing scenario in the context of globalization, Architectural Journalism in practical.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Architectural Design VIII	210801	PROJECT I: HOUSING - The various types of housing projects in a typical urban scenario can be taken with suitable design parameters that get established after conducting a rigorous study. PROJECT II: URBAN DESIGN OR CONSERVATION - Urban design projects could deal with redevelopment of problem areas such as riverfronts, beach fronts, market areas, bazaars or commercial & residential districts that have reached dead end situation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Urban Design	210802	UNIT- 1 INTRODUCTION - Emergence of urban design as a discipline, need for urban design, Elements of urban design(buildings, streets, public spaces, transports, other elements etc. Principles of urban design- creating form and spatial definition in articulation of urban design expression. UNIT- 2 STUDY AND ANALYSIS OF URBAN SPACES IN HISTORY AND MODERN CONCEPTS UNIT- 3 BASIC PRINCIPLES & TECHNIQUES IN URBAN DESIGN, UNIT- 4 RENEWAL, RE-DEVELOPEMENT AND FORMULATING URBAN DESIGN, UNIT- 5 URBAN DESIGN SURVEY AND PRESENTATION - Conducting an urban design survey of Conservation of historic cities, open-spaces, development of market spaces, transit oriented developments, water front development in India.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf

Professional Practice and Ethics	210803	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective VI _Furniture Design) (ELECTIVE VI)	210811	Students obtain knowledge of the creation and evolution of objects, structures and systems at human scale that aim to improve the quality of life in the immediate living and working environment, while looking at sustainable and innovative use of diverse materials and processes.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective VI Advanced Strucrure Design (ELECTIVE VI)	210813	The objective of the subject is to introduce the students about the fundamentals of stability of Modern structures in R. C. C. and various factors of R.C. C. structure designing.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Elective VI City & Metropolitan Planning (ELECTIVE VI)	210812	UNIT-1 URBAN GROWTH AND SYSTEM OF CITIES,UNIT-2 COMMUNITY AND SETTLEMENTS, UNIT-3 METRO AND MEGA CITIES: PROBLEMS AND ISSUES,UNIT-4 HUMAN SETTLEMENT PLANNING, URBAN DEVELOPMENT POLICIES AND PROGRAMMES,UNIT-5 LAND AND REAL ESTATE DEVELOPMENT,UNIT-6 INFORMATION SYSTEM AND URBAN REFORMS	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/co/B%20Arch%20Syllabus%202020%202021CO%20MAPPING.docx.pdf
Training	AR1001	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf

City & Metropolitan pLanning	670211	Planning, finance and manage urban areas. Structures supported by effective land markets, appropriate regulation, good public services, adequate public finance and transparent and accountable city level political systems.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Urban Heritage Conservation	670202	Urban conservation in planning, its techniques and Policies and Programmes, Legislations	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Urban Development Finance & Project Planning	670203	Finance at different stages, investment planning and financing mechanism, project formulation and appraisal, project management and implementation, and project evaluation and monitoring	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Legal Issues & Professional	670204	Planning legislation & concepts, urban policy, its nature and process of making urban policy, Professional Practice in planning	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Research Methodology	670205	Basic principles & methods of Research, specifically in Design at Urban scale, and towards helping them conducting their own authentic & independent research. Research basics, defining research problem, Research Design, Developing a Research Plan, Plagiarism, IPR, etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Studio-I	670206	Dynamics of various components of the city and level interventions with multi-dimensional, dynamic and futuristic spaces.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Studio-II	670207	Remote Sensing – Aerial and Satellite; introduction to GIS, Spatial data and Attribute data; Satellite images as input to GIS; Collection and presentation of baseline information.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf
Thesis Project	670401	Students obtain understanding of standards and conventions of doing dissertation and gain preliminary background information that puts the research in context and to clarify the focus of the study.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20Nov.%202020.pdf

Introduction to Computing	250101	According to introduction to computing are some skills as High speed, Accuracy, Storage, Automation, Diligence, Versatility and Cost effectiveness	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Introduction to Computer Programming	250102	This subject provides the basic knowledge of programming skills using C language, which is the basic need of industry. Students are taught to develop basic to middle level programming exercise to enable them for developing higher-level applications.	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Statistical Techniques	250103	Data Science, Weather Forecasting,Insurance, Engineering and Technology	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Element of Calculus	250104	computations involving area, volume, arc length, center of mass, work, and pressure. More advanced applications include power series and Fourier series. Calculus is also used to gain a more precise understanding of the nature of space, time, and motion.	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Computing Lab (SPSS)	250105	word processing, desktop publishing and presentations, computer use in classrooms, telecommunications and distance learning, computer hardware and software, networking and multimedia presentations	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Computer Organization and Logic Design	250201	Digital logic design is use as circuit boards and microchip processors	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Differential Equations	250202	In real life are used to calculate the movement or flow of electricity, motion of an object to and fro like a pendulum, to explain thermodynamics concepts	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Object Oriented Methodology and Programming with C++	250203	This subject enhances the programming skill of the students by enabling them to use the concepts of object-oriented programming. Students are taught to use Classes, Inheritance, and Polymorphic Behaviour by developing middle level projects.	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Linear Algebra	250204	Data Science, natural sciences, computer science, computer animation, testing software code in software engineering.	2020	https://web.mitsgwalior.in/images/NAAC/1/1.1.3%20MAC.pdf
Engineering Graphics	100014	Convey the detail graphical design information of the objects	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Mini Project	130111	Develop learning in technical, project management and presentation spheres.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf

Electromagnetic Field Theory	130301	Knowledge of Electromagnetic fields to understand working principle of various power apparatus & machine	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Measurement & Instrumentation	130302	Knowledge of measurement technique for electrical/electronic parameters , accuracy and need of calibration	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Network Analysis	130303	capable of analyzing any given electric/ electroncis networks, concepts of transients and unbalanced three phase supply	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Analog Electronics	130304	Understand the principle, operation and applications of diode, BJT, FET, amplifier etc to develop electronic circuit	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Software Lab - I	130305	MATLAB programing/ Simulink	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Self Learning/Presentation	130306	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Summer Internship Project -I	130307	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Signals & Systems	130501	Understanding fundamental characteristics of Signals & Systems in both time & transform domain. Also to develop mathematical skills to solve problems involving convolution, filtering, modulation and sampling.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Power System-II	130502	Explore the ways and means to perform power system analysis in normal operation and under symmetrical and unsymmetrical faults	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Electrical Machines-II	130503	Develop basic concepts of ac machine, their constructional details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Power Electronics	130504	Understand the concepts, basic operation, steady state operation of efficient switched-mode power conversion techniques, including basic circuit operation	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf

Course	Code	Description	Year	Link
Minor Project-I	130505	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Summer Internship Project -II	130506	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Self Learning	130507	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Electrical Drives	130711	Overview of complete electric drive system including the mechanical part, electric machine, power converters & control	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Renewable Energy Systems	130712	Renewable energy generation	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
IoT in Microgrid	130713	Understand the concepts of flexible and efficient electric grid by enabling the integration of growing deployments of distributed energy resources such as renewables like solar, wind etc.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Intelligent Sensors and Instrumentation	130714	Advance control system application to instrumention	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Control Systems Lab	130701	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Summer Internship Project -III	130702	Learn and sharpen in-demand technical skills	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Creative Problem Solving lab	130703	Acquaint with the conceptual as well as practical knowledge of the PLC programming	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Introduction to Smart Grid	130751	Power System genrations and intrgations	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf

Advances in UHV Transmission & Distribution	130752	Emphasizes learning and understanding the newer design criteria required for the UHV transmission systems viz: insulation design, protections, safety concerns etc	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Electrical Distribution System Analysis	130753	Application of computer system in electrical engineering	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Electrical Equipment and Machines: Finite Element Analysis	130754	Understand and apply FEM effectively for analysis of devices	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Applications of Electrical Equipment & Motors	900205	Build the concepts of various types of electrical machines and applications of electrical machines	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
IoT in Microgrid	900216	Provide anoverview of microgrid and its potential in different types of power sectors such as power generation, transmission and distribution	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Electric Vehicle	900217	Building of engineering knowledge used for the design, development, and test of Electric vehicle systems	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/6.%20BoS%2028.05.2020.pdf
Engineering Materials	130211	Knowledge of different type of material and their use in engineering application	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Electrical Workshop	130212	Provides a platform for all kind of practical jobs like domestic wiring, fittings, drilling job, switchboard assembly, coil winding, repair and maintainence work of various electrical appliances.	2020	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Digital Electronics & Microprocessor	130401	Basic idea about microprocessor & its programming, munber system & codes	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Electrical Machines-I	130402	Develop basic concepts of dc machine and transformer, their construtional details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Control System	130403	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf

Course	Code	Outcome	Year	Link
Power System-I	130404	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Software Lab - II	130405	Simulation of electrical systems using MATLAB/Simlink	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Switchgear & Protection	130601	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Electrical Engineering Materials	130602	Provide thorough understanding of the electrical properties and characteristics of various materials, used in the electrical appliances	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Minor Project-II	130603	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Computer Aided Power System Analysis	130611	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Industrial Automation	130612	Understand automation technologies and identify advantages, limitations and applications of thesame.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Transducers & Sensors	130613	Understand the constructions and working principle of different types of sensors and transducers, instrument tranformer, magnetic measuremet, HV measurement etc	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Solar PV System: Design and Economics	130614	Develop a comprehensive technological understanding in solar PV system components, design & economics	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Non Conventional Energy Resources	130655	Understand the need of harnessing alternate energy resources, its chalanges and applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
DC Power Transmission Systems	130656	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf

Course	Code	Description	Year	Link
Energy Conservation & Management	900103	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Biomedical Instrumentation	900115	Learn about the generation & recording of bioelectrical signals, working with medical instruments used in the biomedical field	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Introduction to Internet of Things	130851	Learn about Basics of IoT, Components of IoT including Sensors and actuators, computing and communication system	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Waste to Energy Conversion	900605	Deals with the production of energy from different types of wastes through thermal, biological and chemical routes.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Waste to Energy Conversion	130852	Deals with the production of energy from different types of wastes through thermal, biological and chemical routes.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	900607	Lean latest Trends in Electrical power Generation using Renewable Energy Sources	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	130853	Lean latest Trends in Electrical power Generation using Renewable Energy Sources	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Fuzzy Logic and Neural Networks	900302	Provide the various fundamental concepts of fuzzy logic and artificial neural network to get sufficient knowledge to analyze and design the various intelligent control systems	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Non Conventional Energy Resources	900608	Understand the need of harnessing alternate energy resources, its chalanges and applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Internship/Project	130801	Get opportunity to enhance the skills, obtain the perspective of a work environment and benefit from a mentor or supervisor's experience and advice.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Professional Development	130802	Taking steps to learn relevant skills, expand your professional network and competency development	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/7.%20BoS%2028.11.2020.pdf
Engineering Graphics Lab	100018	Hand on practice of different drawing	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Material Science	190211	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Material Science	120211	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Manufacturing Practices	100024	basics of tools and equipments used in fitting, carpentry, sheet metal, welding and smithy	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Basic Mechanical Engineering Lab	120026	Demonstrate Engines and Boiler fundamentals using models	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Material Science	120301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Mechanics of Materials	120302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Theory of Machines –I	120303	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Fluid Mechanics and Hydraulic Machines	120304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Software Lab	120305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	120306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Summer Internship Project-I (Institute Level) (Evaluation)	120307	Hands on sessions for skill development	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Theory of Machines –II	120401	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Design of Machine Elements	120402	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Manufacturing Process	120403	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Engineering Thermodynamics	120404	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Lab	120405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Industrial Engineering	120501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Metal Cutting and Machine Tools	120502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Heat And Mass Transfer	120503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Thermal Engineering	120504	Study of various cycles and their applications	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Machine Design	120505	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Minor Project-I	120506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Summer Internship Project-II (Evaluation)	120507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	120508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Advance Production Technology	120601	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Description	Year	Link
Vibration and Noise Engineering	120611	Real-world mechanical vibration problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Statistical Quality Control	120612	Concepts of reliability, life testing and costing of product	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Work Study and Ergonomics	120613	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Turbo Machinery	120614	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Fundamental of Welding Science and Technology	120652	Welding behavior of materials	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Viscous Fluid Flow	120654	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Properties of Materials (Nature and Properties of Material: III)	120655	Materials and its behavior for different applications	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Robotics	900101	Robot anatomy and its application	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Product Design	900102	Product requirement and its different aspects	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Minor Project-II	120605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Reliability and Vibration Lab	120701	To check performance of different bearings, analysis of behavior and their relation at different vibration conditions.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Summer Internship Project-III	190702	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Summer Internship Project-III	120702	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Description	Year	Link
Creative Problem Solving (Evaluation)	120703	Optimization of machine, mechanical process for society/industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Refrigeration and Air-Conditioning	120711	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Basic of Finite Element Analysis	120712	The concepts of Mathematical Modelling of Engineering Problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Metrology, Measurement and Control	120713	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Total Quality Management	120714	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Foundation of Computational Fluid Dynamics	120751	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Introduction to Composites	120752	Develop the concepts of various composites materials used in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Advanced Machining Processes	120753	Aims at bringing the students up-to-date with the latest technological	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Industrial Safety Engineering	120754	Skill to reduce the occurrence of unsafe operation in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Industrial Automation	900203	Different machine control systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Solar Energy	900204	Application of solar systems for betterment of society.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Engineering Materials for Industrial Applications	900214	Different materials and their behavior for different application.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Maintenance Engineering	900215	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Internship/Project	190801	Apply Engineering knowledge for society/industries projects/problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Internship/Project	120801	Apply Engineering knowledge for society/industries projects/problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Professional Development	190802	To motivate strudents to participate in different institute/national activities.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Professional Development	120802	To motivate strudents to participate in different institute/national activities.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Quality Design and Control	120851	Statistical methods used in industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Robotics: Basics and Selected Advanced Concepts	120852	Key elements and constituents of a robot	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Steam and Gas Power Systems	120853	Develop understanding of the steam and gas power systems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Material Science	190301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Mechanics of Materials	190302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Engines	190303	Study of different concepts of IC engine, body and chessis details.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Fluid Mechanics & Hydraulic Machines	190304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Software lab	190305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	190306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Summer Internship Project-I (Institute Level) (Evaluation)	190307	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Theory of Machines –I	190401	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Electrical and Electronics System	190402	Develop skill of finding faults and rectification of ignition circuits and wiring.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Engineering Thermodynamics	190403	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Manufacturing Process	190404	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Lab	190405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Industrial Engineering	190501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Metal Cutting and Machine Tool	190502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Heat and Mass Transfer	190503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Design of Machine Elements	190504	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Chassis	190505	Understand vehicle chassis structure and components of transmission lines.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Minor Project-I	190506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Summer Internship Project-II (Evaluation)	190507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	190508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Transmission	190601	Develop the basic knowledge of the students in mechanics, torque conversion area	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Material	190611	Study of materials used in automotive and their behavior.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Work Study and Ergonomics	190612	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Pollution and Control	190613	Different emission standards and controls	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Component Design	190614	Concepts of stress analysis, theories of failure and material science to analyze, design and/or select commonly used Automotive components.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Robotics and Control: Theory and Practice	190652	Key elements and constituents of a robot	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Fundamental of Automotive System	190653	Basics of automotive system and construction	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Viscous Fluid Flow	190654	In-depth understanding of concepts in viscous fluid flow.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Minor Project-II	190605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automotive Maintenance	190701	Hands in session for vehicle maintenance, Vehicle service procedure	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Description	Year	Link
Vehicle Dynamics	190711	Forces act on vehicles, performace analysis, design considerations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Theory of Fuels and Lubricants	190712	Fules and their behavior under varios conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Two and Three-Wheeler Technology	190714	Vehicle designing and its performance	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Farm Machinery	190751	Design of horticultural machines and equipment	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Mechanism and Robot Kinematics	190752	Robot mechanism and its application in real life	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Introduction to Mechanical Vibration	190753	Robot mechanism and its application in real life	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Industrial Safety Engineering	190754	Skill to reduce the occurrence of unsafe operation in industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Wheeled Mobile Robots	190851	Computational and motion control methods applicable to mobile robotic systems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Steam and Gas Power Systems	190852	Analysis of vapour power cycle, steam generators and their accessories, Performance of Boilers and combustion of fuel	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Product Design and Manufacturing	900609	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Automatic Control	900610	Understand the fundamental and advance concepts of automatic controls for engineers and designers.	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Mechatronics	900611	Skill sets needed in the contemporary, advanced automated manufacturing industry	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Outcome	Year	Link
Elements of Solar Energy Conversion	900612	Introduce the basic concepts required for the engineers to work in the field of solar energy technology, both industrial installations and research endeavours	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Traditional and Non-Traditional Optimization Tools	900613	Formulation of design problems as mathematical programming problems	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Engineering- I	560112	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production and Operations Management	560113	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Maintenance Management	560114	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Flexible Manufacturing Systems	560115	Study of different manufacturing techniques automation and control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Ergonomics and Work Study	560116	Various techniques of work-study for improving the productivity of an organization.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Total Quality Management	560117	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Product Design & Development	800111	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Computer Integrated Manufacturing	800112	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Engineering Lab-I	560120	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self Learning / Presentation	560121	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Description	Year	Link
Automation & Robotics	560211	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Engineering-II	560212	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Logistics and Supply Chain Management	560213	Industrial logistics challeges and their different solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Quality Design and Control	560214	Statistical methods used in industries	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Traditional and Non-Traditional Optimization Tools	560215	Use of latest optimization technique for problem solving	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Product Design and Manufacturing	560216	Skills to translate the ideas into the practical design and mass production	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Material characterization	560217	Microstructural characterization of materials	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Generative Design for Additive Manufacturing	560218	3D Printing, Additive Manufacturing, generative design	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Introduction to Operations Management	800210	Efficient business operations, production of goods and services	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Tools in Scientific Computing	800211	Hands-on training various tools available for scientific computing	2020	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Production Engineering Lab-II	560220	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Self Learning / Presentation	560221	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf

Course	Code	Objective	Year	Link
Computer Integrated Manufacturing	560301	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Maintenance Management	560302	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Seminar	560303	Skill development of self learning through presentation and group discussion	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Dissertation Part – I (Literature review / Problem Formulation/ Synopsis)	560304	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Management Functions and Behaviour	700111	process, tasks and responsibilities of a professional manager	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Teamwork, Leadership and Corporate Finance	700112	interpersonal leadership and teamwork skills, corporate financial analysis from the point of corporate value creation.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Business, Government, Society and International Economy	700113	political, regulatory, societal, Cultural and natural factors	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Managerial Communication	700114	improving verbal and non-verbal communication to develop student's skills in applying these concepts to realistic situations in a different workplace environment	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Microeconomics	700115	take decisions through strategies regarding Market Conditions, Pricing, and facing competition.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Marketing Management	700116	fundamentals of marketing concept and the role marketing plays in business.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Managing People and Performance in Organizations	700117	to practices and techniques for evaluating performance, structuring teams, coaching and mentoring people	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Financial & Management Accounting and Control	700118	Concepts of Financial, Cost and Management Accounting and their application in managerial decision making	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Self-learning/Presentation (through SWAYAM/NPTEL/MOOC or Interdisciplinary course from other institutions and platforms	700219	Self-learning (Interdisciplinary)	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Organizational Behavior	700211	function more effectively in their roles as managers personally and with others.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf

Course	Code	Description	Year	Link
Operations Management	700212	taking decisions in operating and controlling the production and service industries.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Financial Management	700213	ensure regular and adequate supply of funds to the concern and Adequate returns to the shareholders,	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Research Methodology & Statistics	700214	design and execute a basic survey research project, to understand the research tools and techniques; statistical description and analysis, appropriate for a business student	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Entrepreneurship & Innovation	700215	role of the entrepreneur, innovation and technology in the entrepreneurial process.	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Legal Aspects of Business	700216	significant provisions of selected business laws	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
International Business Management	700217	emerging global trends to business environment and framework of International Business	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Business, Environment and Sustainability	700218	social, political and economic context of business, effect of technology on the environment,Sustainable Business Development	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Self-learning/Presentation	MC0201	Personality development	2020	https://web.mitsgwalior.in/images/Departments/management/NAAC/1.1.3%20DoM%202020-21%20final.pdf
Dissertation part-II	560401	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2020-21.pdf
Engineering Graphics	100105	imagination and mental visualization capabilities for interpreting the geometrical details of common engineering objects	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Manufacturing Practices	100106	basics of tools and equipments used in fitting, carpentry, sheet metal, welding and smithy	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Basic Mechanical Engineering	100204	Thermodynamic laws, steam generator and reciprocating machines for solving engineering problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Material Science	120301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Mechanics of Materials	120302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Course	Code	Outcome	Year	Link
Theory of Machines –I	120303	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Fluid Mechanics and Hydraulic Machines	120304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Software Lab	120305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	120306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Summer Internship Project-I (Institute Level) (Evaluation)	120307	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Theory of Machines –II	120401	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Design of Machine Elements	120402	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Manufacturing Process	120403	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Engineering Thermodynamics	120404	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Lab	120405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Industrial Engineering	120501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Metal Cutting and Machine Tools	120502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Heat And Mass Transfer	120503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Thermal Engineering	120504	Study of various cycles and their applications	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Machine Design	120505	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Minor Project-I	120506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Summer Internship Project-II (Evaluation)	120507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	120508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Advance Production Technology	120601	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Vibration and Noise Engineering	120611	Real-world mechanical vibration problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Statistical Quality Control	120612	Concepts of reliability, life testing and costing of product	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Work Study and Ergonomics	120613	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Turbo Machinery	120614	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Power Plant Engineering	120651	Study of plant requirement of thermal aspects	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Course	Code	Description	Year	Link
Fundamental of Welding Science and Technology	120652	Welding behavior of materials	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Gear and Gear unit Design: Theory and Practice	120653	Different aspects of gear design	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Minor Project-II	120605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Machine Design-III	BMEL -701	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Refrigeration & Air- Conditioning	BMEL -702	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Robotics & Mechatronics	BMEL -703	Key elements and constituents of a robot	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Heat & Mass Transfer	BMEL-704	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production & Operation & Management	BMEL-705 (i)	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Gas Dynamics	BMEL-705 (ii)	Behaviour of gas under dynamic condition and its effects	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Material Handling systems and Equipment	BMEL-705 (iii)	Industrial material handling problems and solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Non-conventional energy sources	BMEL-705 (iv)	Use of alternative energy, performance and future	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Machine Tool Technology	BMEL-705 (v)	Design of different machine tools for industrial aaplication	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Industrial Training	BMET -706	Skill development using hands on practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Course	Code	Outcome	Year	Link
Project-I	BMED - 707	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Vibration & Noise Control	BMEL - 801	Real-world mechanical vibration problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automobile Engineering	BMEL - 802	Different componenet of vehicle, their design and behavior	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Statistical Quality Control/Statistical Process Control	BMEL - 803	Concepts of reliability, life testing and costing of product	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Emerging Technologies &Management Techniques	BMEL-804 (i)	Latest management technologies to make process more economical and effective	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Advance Welding Technology	BMEL-804 (ii)	Latest welding techniques and application in engineering field	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Optimization Techniques	BMEL-804 (iii)	To optimize machine/process with different techniques, applications and examples	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Maintenance Engineering	BMEL-804 (iv)	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Project Management	BMEL-804 (v)	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Seminar/Self Study	BMES -805	Skill development of self learning through presentation and group discussion	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Project-II	BMED -806	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Material Science	190301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Mechanics of Materials	190302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Automotive Engines	190303	Study of different concepts of IC engine, body and chessis details.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Fluid Mechanics & Hydraulic Machines	190304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Software lab	190305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	190306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Summer Internship Project-I (Institute Level) (Evaluation)	190307	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Theory of Machines –I	190401	Apply fundamental of mechanics to machines which include engines, linkages etc	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Electrical and Electronics System	190402	Develop skill of finding faults and rectification of ignition circuits and wiring.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Engineering Thermodynamics	190403	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Manufacturing Process	190404	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Lab	190405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Industrial Engineering	190501	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Metal Cutting and Machine Tool	190502	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Heat and Mass Transfer	190503	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Design of Machine Elements	190504	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Chassis	190505	Understand vehicle chassis structure and components of transmission lines.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Minor Project-I	190506	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Summer Internship Project-II (Evaluation)	190507	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)	190508	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Transmission	190601	Develop the basic knowledge of the students in mechanics, torque conversion area	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Material	190611	Study of materials used in automotive and their behavior.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Work Study and Ergonomics	190612	Various techniques of work-study for improving the productivity of an organization.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Pollution and Control	190613	Different emission standards and controls	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automotive Component Design	190614	Concepts of stress analysis, theories of failure and material science to analyze, design and/or select commonly used Automotive components.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Fundamental of combustion for propulsion	190651	Combustion behavior and its analysis	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Course	Code	Description	Year	Link
Robotics and Control: Theory and Practice	190652	Robot anatomy	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Fundamental of Automotive System	190653	Basics of automotive system and construction	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Robotics	900101	Robot anatomy and its application	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Product Design	900102	Product requirement and its different aspects	2019	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Minor Project-II	190605	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Vehicle Dynamics	BAUL-701	Forces act on vehicles, performace analysis, design considerations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Refrigeration & Air Conditioning	BAUL-702	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Transport Management and motor vehicle Act	BAUL-703	Different rules and regulations of motor vehicle act	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Heat and Mass Transfer	BAUL-704	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Machine Design-III	BAUL-705 (i)	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production & Operation Management	BAUL-705 (ii)	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Off road Vehicle	BAUL-705 (iii)	Vehicle designing and its performance	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Non-conventional energy sources	BAUL-705 (iv)	Use of alternative energy, performance and future	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Industrial Training	BAUT-706	Skill development using hands on practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Project-I	BAUD-707	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Vibration & Noise Control	BAUL- 801	Real-world mechanical vibration problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Vehicle Body Engineering	BAUL- 802	Vehicle body structure, component, forces, materials	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Hybrid Electric Vehicle	BAUL- 803	Study of hybrid vehicle, structure, component, use	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Advance Welding Technology	BAUL-804 (i)	Latest welding techniques and application in engineering field	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Project Management	BAUL-804 (ii)	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Maintenance Management	BAUL-804 (iii)	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Tyre Technology	BAUL-804 (iv)	Different types of tyre, manufacturing and performance	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Quality Assurance	BAUL-804 (v)	To perform different quality test	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Seminar/ Self Study	BAUS- 805	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Major Project	BAUD- 806	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Optimization Techniques In Mechanical Engineering	560101	To optimizate machine/process with different techniques, applications and examples	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Integrated Manufacturing & Resources Planning	560102	Resource management using different approaches	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Engineering- I	560103	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production & Operation Management	560104	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Ergonomics and Work Study	560105	Various techniques of work-study for improving the productivity of an organization.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Project Management	560106	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Reliability Availability and Maintainability	560107	To check performance of different bearings, analysis of behavior and their relation at different vibration conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
World-Class Manufacturing	560108	Manufacturing aspects, management stretegies and their implementations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Simulation & Modeling Lab. -I	560109	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Engineering Lab. – I	560110	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Automation & Robotics in Production	560201	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Engineering-II	560203	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Total Quality Management	560204	The philosophy and core values of Total Quality Management	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf

Engineering Estimation & Costing	560205	Latest management technologies to make process more economical and effective	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Flexible Manufacturing System	560206	Study of different manufacturing techniques automation and control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Concurrent Engineering	560207	Study of process using different aspects of engineering	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Logistics & Supply Chain Management	560208	Industrial logistics challeges and their different solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Computer Lab-I	560209	Hands on session for skill developments	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Production Engineering Lab-II	560210	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Computer Integrated Manufacturing	560301	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Maintenance Management	560302	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Seminar	560303	Skill development of self learning through presentation and group discussion	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Dissertation Part – I (Literature review / Problem Formulation/ Synopsis)	560304	To delop product/simulate/experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Dissertation part-II	560401	To delop product/simulate/experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2019-20.pdf
Basic Civil Engineering & Mechanics	100205	Building Materials, applications of remote sensing, measurement of area volume, shear force bending moment	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Planning & Design	110302	Green Buildings, NBC provisions, building bye laws	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Subject	Code	Topics	Year	Link
Building Materials & Construction	110303	Fresh and Hardened concrete, damp prevention, anti termite treatment, water proofing	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Surveying	110304	Traversing, curve setting, linear and angular measurement	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Strength of Materials	110305	Stress Strain, euler's buckling load	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Software Lab	110306	drawing of building elements on AutoCAD	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Summer Internship Project - I	110308	Students work on in house projects under various domains.	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Estimating, Costing & Contracting	110501	rate analysis, preparation of detailed estimates of buildings, contract	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Structural Design & Drawing (RCC)	110502	design of beams, slabs, columns, footings, staircases	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Fluid Mechanics - II	110503	pipe flow problems, uniform flow in open channels	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Transportation Engineering	110505	geometric design of highways, traffic studies, design of flexible and rigid pavements	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Minor Project - I	110506	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Summer Internship Project - II	110507	students work on improving their soft skills	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Environmental Engineering - I	110504	water treatment plant design, design of distribution system	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202019%20file.pdf
Geotechnical Engineering - II	BCEL701	Shallow foundations, deep foundations, pile foundations	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Course	Code	Topics	Year	Link
Environmental Engineering - II	BCEL702	sewage treatment plant, sewerage system deisgn	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Advanced Structural Design - I (RCC)	BCEL703	design of water tanks, bridges, prestressed concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Railway, Bridge & Tunnel Engineering	BCEL704	geometrical design, curves, railway stations, construction of tunnels	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Irrigation Engineering	BCEL705	Design of lined and unlined canals	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Training/Internship	BCET706	Field oreinted case studies like bridge, overhead tanks, highway and multistorey buildings, etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Major Project - I	BCEP707	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Management Theory	510101	comparative management styles and approaches	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Materials & Equipments	510102	Concrete mix design, special concrete, prefabrication	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Quantitative Methods	510103	Game Theory, Theory of Probability, Z transform	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Contract Management	510104	claims & arbitrations, construction contracts BOT projects	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Functional Planning Building Services & Maintenance Management	510105	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Computer Lab-I	510106	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Construction lab- I	510107	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Infrastructure Project Management	510301	strategic issues in infrastructure development, risk management in infrastructure project	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	510302	Hydrograph analysis, flood estimation, C&D waste management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	510304	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Environmental Chemistry & Microbiology	530101	instrumental methods of analysis, microbiology of water and waste water	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Materials & Equipments	530102	Concrete mix design, special concrete, prefabrication	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Quantitative Methods	530103	Game Theory, Theory of Probability, Z transform	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Solid Waste Management	530104	solid waste treatment, disposal	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Functional Planning Building Services & Maintenance Management	530105	Provision of NBC, Plumbing services	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Computer Lab - I	530106	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Env Lab - I	530107	Water quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Principles & Design of Biological Treatment System	530301	Biological Sewage Treatment techniques	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	530302	Hydrograph analysis, flood estimation, C&D waste management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	530304	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Geotechnical Engineering	110402	permeability of soil, stress distribution in soil, shear strength of soil	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Fluid Mechanics - I	110403	Flow measurement, stoke's law, dimensional analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Structural Analysis	110404	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Water Resources Engineering	110406	Flood estimation, hydrograph analysis, design of canals	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Survey Practice Lab	110407	Traversing by total station, Profiling of road	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Structural Design & Drawing (Steel)	110602	design of tension members, compression members, plate girders, built up beams	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Waste Water Engineering	110611	sewage treatment plant, sewerage system deisgn	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Solid Waste Management	110612	collection of solid waste, treatment and disposal of waste, waste to energy, plastic waste, ewaste management	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Construction Planning & Management	110613	time cost optimization using network techniques	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Maintenance & Repair of Concrete Structures	110651	Repair of Concrete Structures	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Geotechnical Engineering - II (Foundation Engineering)	110652	Shallow foundations, deep foundations, pile foundations'	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Energy Efficiency, Accoustics & Day lighting in building	110653	design of energy effeicient buildings	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Disaster Management	100007	disaster impacts, disaster risk reduction	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Minor Project - II	110607	students work on various field based problems, case study, experimental studies etc	2019	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20Nov%202019.pdf
Advanced Structural Design - II (Steel)	BCEL801	design of water tanks, silos, bridges	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Hydraulic Structure	BCEL802	spillways, energy dissipators, cross drainage works	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Industrial Waste Treatment	BCEL803	Tretament of various industrial wastes, like textile, paper pulp etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Building Environment & Services	BCEL804	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Major Project-II	BCEP805	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Construction Techniques	510201	various constrcution techniques, prefab	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Economics & Finance	510202	capital budgeting, project risk, financial accounting	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Cost Management	510203	multi criteria decision making methods, multi objective optimization methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Management	510204	project planning & management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Planning Scheduling & Control	510205	resource planning, cost control	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - II	510206	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Lab- II	510207	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	510401	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Air Pollution & Sound Pollution	530201	air pollution control techniques, air quality monitoring, noise pollution control	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - I (Water Supply Engineering)	530202	water treatment plant design, design of distribution system	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - II (Waste Water Engg)	530203	waste treatment plant design	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Course	Code	Description	Year	Link
Project Management	530204	project planning & management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Impact Assessment & Ethics	530205	Planning & developing of EIA reports	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - II	530206	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Env Lab - II	530207	waste water quality anlysis, air quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	530401	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Engineering Chemistry	100101	engineering materials such as polymers, energy production	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Engineering Mathematics - I	100102	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Technical English	100103	Language skills	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Basic Electrical & Electronics Engineering	100104	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Engineering Mathematics - III	100003	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Cyber Security	100004	To prepare students with the technical knowledge and skills needed to protect and defend computer systems and networks.	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Electronics - II	200401	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Electronics - II	140401	To expose to the field of electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf

Analog Communication	200402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Analog Communication	140402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Communication Networks	200403	Data communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Communication Networks	140403	Data communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Stochastic Processes in Communication	200404	Digital communication systems	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Hardware Lab	200405	Learn PCB design used in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Hardware Lab	140405	Learn PCB design used in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Electronics Measurement and Instrumentation	140404	Understanding of Measurement errors in electronics instruments	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Digital Signal Processing	200601	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Digital Signal Processing	140602	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Data Communication	200602	Layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Minor Project - II	200606	Integration of knowledge and skills from various areas	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Minor Project - II	140606	Integration of knowledge and skills from various areas	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf

Optical Communication	200611	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Optical Communication	140611	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Antennas and Wave Propagation	200612	Antenna design	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Antennas and Wave Propagation	140612	Antenna design	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Telecom Switching and Networks	200613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Telecom Switching and Networks	140613	Traffic management.	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Spread Spectrum Communications and Jamming	200651	Secure communications over a large frequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Spread Spectrum Communications and Jamming	140651	Secure communications over a large frequency band	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Digital IC Design	200652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Digital IC Design	140652	MOS Design	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Fuzzy Sets,Logic and Systems & Application	200653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Fuzzy Sets,Logic and Systems & Application	140653	Concepts of fuzzy logic and its applications	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Intelligent Control	900104	Fuzzy logic, neural networks	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf

Course	Code	Objective	Year	Link
Embedded System	900105	To develop assembly language programming skills	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Microprocessor and Interfacing	140601	To develop assembly language programming skills	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Fiber Optics and Optical Communication	8441	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Fiber Optics and Optical Communication	BELL801	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Satellite Communication	8442	Satellite Communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Satellite Communication	BELL802	Satellite Communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
TV and Radar Engineering	8443	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
TV and Radar Engineering	BELL803	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Neural Network and Fuzzy Systems	ELL804	Analyze the various feedback networks	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Image Processing and Pattern Recognition	ELL808	Image enhancement and classifiaction	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Nanotechnology	ELL809	Apply engineering and physics concepts to the nano-scale and non-continuum domain	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Biomedical Instrumentation	ELL810	Biomedical system analysis	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Major Project-II	ELL805	Practical live project	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf

Major Project-II	8445	Practical live project	2020	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Engineering Physics	100201	Formulate general mechanics parameters and distinguish between central and noncentral forces.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Energy, Environment, Ecology & Society	100202	To study an environment and ecosystem, To study natural resources	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Basic Computer Engineering	100203	An ability to design, implement, and evaluate a computer-based system, process, components	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Language Lab. & Seminars	100206	To implement English vocabulary at command and ensure language proficiency	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Engineering Mathematics-II	100001	Different numerical methods and equations	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Biology for Engineers (Audit Course)	100002	Biological engineering	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Nov%202019_merged_compressed.pdf
Electronics-I	140301	Deep knowledge in Core Electronic components required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics-I	200301	Deep knowledge in Core Electronic components required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Circuits and Systems	140302	develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Circuits and Systems	200302	develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Network Theory	140303	apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Network Theory	200303	apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

Signals and Systems	140304	Fourier Transform, Signal analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Signals and Systems	200304	Fourier Transform, Signal analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Software Lab Introduction to MATLAB	140305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Software Lab Introduction to MATLAB	200305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Principles of Management & Economics	BELL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Principles of Management & Economics	BETL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microprocessors & Interfacing	BELL502	To develop assembly language programming skills	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microprocessors & Interfacing	BETL502	To develop assembly language programming skills	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electromagnetic Fields	BELL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electromagnetic Fields	BETL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Optimization Techniques	BETL509	Create different optimization techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Optimization Techniques	BELL509	Create different optimization techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Renewable Energy Resources	BETL510	Environment energy resources analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

Course	Code	Description	Year	Link
Renewable Energy Resources	BELL510	Environment energy resources analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Mechatronics	BELL511	Principles of mechanics	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Mechatronics	BETL511	Principles of mechanics	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Linear Control Theory	BELL504	Control systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Linear Control Theory	BETL504	Control systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Communication	BELL505	Communication techniques for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Communication	BETL505	Communication techniques for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics Workshop	BELP506	PCB design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics Workshop	BETL506	PCB design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	7441	Control systems and realiztion techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	BELL701	Control systems and realization techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	BETL701	Control systems and realiztion techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microwave Engineering	7442	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

			2017	
Microwave Engineering	BELL702	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microwave Engineering	BETL702	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	7443	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	BELL703	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	BETL703	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
VLSI Design	7444	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
VLSI Design	BELL704	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
VLSI Design	BETL704	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
ATM Networks	ELL705	Operation of ATM networks	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
ATM Networks	BETL705	Operation of ATM networks	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Selected Topics in Communication	ELL709	Advance communication analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Selected Topics in Communication	BETL709	Advance communication analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
CMOS Technology	ELL710	SOC design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

CMOS Technology	BETL710	SOC design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Data Mining and Warehousing	ELL711	Data analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Data Mining and Warehousing	BETL711	Data analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Major Project - I	BELP 706	Integration of knowledge and skills from various areas	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Artificial Intelligence & Expert Systems	BITL 701	The course introduces the variety of concepts in the field of artificial intelligence and expert systems. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
IT Infrastructure Management	BITL 703	This course attempts to introduce students to 'real world' risks and challenges in managing infrastructure.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Adhoc Network	BITL 704	Students will learn about a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield, object tracking, habitat monitoring, patient monitoring, fire detection and so on,where Ad-hoc networks are useful.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
E-Commerce	BITL 705	Foundations of E-Business systems, Infrastructure, Functional Areas, Decision Support for E-Business Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Natural Language Processing	BITL 710	The course covers some of the most interesting applications of text mining such as entity linking, relation extraction, text summarization, text classification, sentiment analysis and opinion mining.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Software Engineering and Quality Assurance	BITL 711	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Agile Methodology	BITL 712	This course will explain underpinning philosophy and principles of Agile, lifecycle of an Agile project, including alternative configurations. The products produced during an Agile project and the purpose of these. The techniques used and their benefits and limitations. The roles and responsibilities within an Agile project. The Agile Project Management process can enable planning, management and control for predictable Agile project deliveries.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Discrete Structures	160501	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Software Engineering	160502	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Software Engineering	160412	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Theory of Computation	160503	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Microprocessor & Interfacing	160504	Understanding of different processors and basic architecture of 16 bit microprocessor and their interfacing with memory and I/O devices, understanding of microcontrollers. Designing of systems using microprocessor and microcontroller.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Digital Electronics	160301	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Digital Electronics	160213	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Data Structures	160302	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Data Structures	160211	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Computer Graphics & Multimedia	160303	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Computer Graphics & Multimedia	160411	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Object Oriented Programming & Methodology	160304	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Object Oriented Programming & Methodology	160212	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Hardware Lab	160305	Working of Hardware and sofware components of computer and other peripherals.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Image Processing	BITL801	The intent of this course is to familiarize the students to explain the fundamental concepts/issues of Computer Vision and Image Processing, and major approaches that address them. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration, etc.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Data Warehouse & Data Mining	BITL802	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Neural Networks & Fuzzy Systems	BITL803	This course will start with a brief introduction to fuzzy sets. The differences between fuzzy sets and crisp sets will be identified. Various terms used in the fuzzy sets and the grammar of fuzzy sets will be discussed.Fundamentals of neural networks and various learning methods will then be discussed.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Internet of Things and Applications	BITL804	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Compiler Design	160601	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Computer Networks	160602	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Network & Web Security	160611	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Image Processing	160612	The intent of this course is to familiarize the students to explain the fundamental concepts/issues of Computer Vision and Image Processing, and major approaches that address them. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration, etc.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf

Agile Methodology	160613	This course will explain underpinning philosophy and principles of Agile, lifecycle of an Agile project, including alternative configurations. The products produced during an Agile project and the purpose of these. The techniques used and their benefits and limitations. The roles and responsibilities within an Agile project. The Agile Project Management process can enable planning, management and control for predictable Agile project deliveries.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Data Analytics with Python	160651	Analysis on Real Data Set	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Introduction to Machine Learning	160652	The course introduces the variety of concepts in the field of Machine learning. It discusses the introduction of ML, and how to model a new problem as an ML problem. It describes a variety of models such as linear regression, logistic regression, and clustering methods etc. which can be used to model a new problem. It also teaches many algorithms to solve each formulation.	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Cloud Computing	160653	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Cloud Computing	160614	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/4.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2009%20APRIL%202019%201.pdf
Data Structures	900106	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf

Course	Code	Description	Year	Link
Python Programming	900107	Design and development of efficient softwares using python programming that can solve the problem related to different domains.	2020	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Software Engineering	900108	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Design & Analysis of Algorithms	160401	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Database Management System	160402	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Operating System	160403	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf

Course	Code	Description	Year	Link
Computer System Organization	160404	This course is concerned with the structure and behavior of a computer system as observed by the user. It serves as the link between hardware and software. It is involved with the elements of system interconnection. It enables students to design, create, and deploy applications that are better, quicker, cheaper, and more efficient in order to make informed decisions.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Programming Lab	160405	Design and development of efficient softwares using programming that can solve the problem related to different domains.	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Programming Lab	160414	Design and development of efficient softwares using programming that can solve the problem related to different domains.	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Polymer Technology	BCHL603	Application of Polymer by using Technolgy	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202019%20BOS_merged_compressed.pdf
Energy Technology	BCHL606	Utilization of energy by using Technolgy	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202019%20BOS_merged_compressed.pdf
Process Engineering & Costing	BCHL701	Cost index capatalized cost	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Chemical Reaction Engg.-II	BCHL702	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Transport Phenomena	BCHL703	Couette flow,eflux from circular cone bottom	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf

Course	Code	Topic	Year	Link
Optimization Techniques	BCHL705	Application of optimization techniques to chemical processes	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202019%20BOS_merged_compressed.pdf
Elective-III Multiphase Flow	BCHL706	Simultaneous flow of multiphase through porous media	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202019%20BOS_merged_compressed.pdf
Bio Process Technology	BCHL801	Biorectors, enzyme kinetics	2017	
Membrane Seperation Process	BCHL802	Utilization of membrane in different filteration process	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202019%20BOS_merged_compressed.pdf
Elective-V Process Safety & Hazards Management	BCHL803	Fall Tree analysis, event tree analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Elective -VI Envioronmental Engineering	BCHL804	Solid, Liquid waste disposal	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Environmental Engg. Lab	BCHP806	Proximate ultimate analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Organic Process Technology	170302	Synthesis of oils	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Fluid Mechanics	170303	Pumps, flowmeters and valve	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Material & Energy Balance	170304	Combustion calculation	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf

Fluid Particle Mechanics	170305	Particales size reduction and screen analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Chemical Synthesis Lab	170306	Synthesis of different chemicals	2018	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Heat Transfer	170402	Lumped parameter for distributed heat transfer equipments	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Mass Transfer –I	170403	Drying of wet solids, Crystalization	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Instrumentation & Process Control	170404	PID Controllers,Stablity analysis of process	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Mechanical Design of Process Equipment	170405	Design of head and closures	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Process Control Lab	170407	Flow controllers, level control	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Chemical Engineering Thermodynamics	170501	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Mass Transfer –II	170502	Drying of wet solids, Evaporation	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf

	170503	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Chemical Reaction Engineering – I				
Computational Methods in Chemical Engg	170504	Optimization of chemical processes	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Inorganic Process Technology	170505	Cement industry,Pulp and paper industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Process Modeling & Simulation	170602	Modelling of reactors, heat exchangers	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Fluidization Engineering	170612	Application of fluidzation Technique methods	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Polymer Technology	170614	Epoxy resins, emulsion polymerization	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Chemical Rection Engineering –II	170651	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Multiphase Flow	170652	Simultaneous flow of multiphase through porous media	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Membrane Technology	170653	Utilization of membrane by using different Technology	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf

Fuels & Combustion	900109	Cmbution calculation,solid briqueting	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Nano Technology	900110	collidoal effect nano particals and its application	2020	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2019-20%20Employbility_compressed.pdf
Image Processing	BCSL 801	Image Processing Systems, Image Enhancement in spatial Domain, Image Enhancement in Frequency Domain, Image Restoration, Morphological Image Processing, Image Registration, Image Segmentation	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Warehouse and Data Minning	BCSL 802	Data Mining, Data Warehouse and OLTP Technology for Data Mining, Data Pre-processing, Mining Association Rules in Large Databases, Classification & Predication and Cluster Analysis	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Neural Networks & Fuzzy Systems	BCSL 803	Workshop on Recent Trends in AI, Deep Learning and Its Application	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Internet of Things and Application	BCSL 804	loT Introduction and Fundamentals,Basics of Networking, lOT PROTOCOLS, components, Sensor Networks, Interoperability in IoT, Cloud Computing in loT, Applications of IoT	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Major Project-II	BCSD 805	To develop ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Artificial Intelligence and Expert Systems	BCSL 701	Workshop on Recent Trends in AI, Deep Learning and Its Application	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Distributed Systems	BCSL 702	Distributed Computing Model, Distributed Share Memory, Distributed File System, Inter Process Communication and Synchronization, Distributed Scheduling and Deadlock	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Digital Forensics	BCSL 703	(Noted by syllabus): Digital Forensics Concepts, Legal Considerations and search authority, Recognizing and Collecting Digital Evidence, Hash values and file hashing, Network Basics	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Adhoc Networks	BCSL 704	Online National Conference on Advances in Information and Communication Technology(NCAICT 2020)	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
E-Commerce	BCSL 705	E-commerce and its Technological Aspects, Consumer Oriented E Commerce, Electronic Data Interchange, Security in E Commerce, Issues in E Commerce	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Grid Computing	BCSL 709	Grid Architecture, Open Grid Service Architecture (OGSA), WSRF and Data Grids, Networking Infrastructure, Protocols and Quality of Service, Security, Accounting and Assurance, Grid Scheduling, Resource Management, Resource Brokers, Resource Reservations	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Natural Language Processing	BCSL 710	NLP tasks in syntax, semantics, and pragmatics, The role of language models, Lexical syntax. Hidden Markov Models, Basic Neural Networks, LSTM Recurrent Neural Networks, Syntactic parsing, Semantic Analysis	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Software Testing and Quality Assurance	BCSL 711	Software Structure and Software Testing, Testing Tactics, Testing & Levels, Special Tests, Test Planning	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Compiler Design	150601	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Computer Networks	150602	Networking Protocols, OSI Reference Model & TCP/IP Reference Model	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Network and Web Security (DE)	150611	Security Principles, Cryptography, Hash Functions, IP & Web Security, Phishing	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf
Image Processing (DE)	150612	Image Processing Systems, Image Enhancement in spatial Domain, Image Enhancement in Frequency Domain, Image Restoration, Morphological Image Processing, Image Registration, Image Segmentation	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%202023%20NOVEMBER%202019.pdf

Course	Code	Topics	Year	Link
Mobile Computing (DE)	150613	Personal Communication Services(PCS), General Packet Radio Services(GPRS), Wireless Application Protocol(WAP), Third Generation (3G) Mobile Services, Wireless Local Loop (WLL)	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Data Analytics with Python (DE*)	150651	Online National workshop on "Data Sciences: Techniques and Tools" under TEQIP III	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Introduction to Machine Learning (DE*)	150652	(nptel) Learning, ML model, Model Selection, Model optimization and Evaluation, Supervised Machine Learning, Ensemble Learner, Unsupervised Machine Learning	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Cloud Computing (DE*)	150653	Cloud Computing Architecture, Service Management, Data Management, Resource Management, Cloud Security	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Minor Project-II	150606	To develop ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics	2019	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/5.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2023%20NOVEMBER%202019.pdf
Ethics, Economics , Entrepreneurship & Management	100005	Ethics, Communication, Management, ENTREPRENEURSHIP	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Discrete Structures	150501	Sets, Functions, Propositional logic, Graph Theory, Group Theory	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Software Engineering	150502	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Theory of Computation	150503	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Microprocessor & Interfacing	150504	Microprocessors (8086), Basic Peripherals and Interfacing, Special Purpose Programmable Peripheral Devices and Interfacing, Serial and Parallel Data Transfer, Microcontrollers	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf

Minor Project-I	150505	In this course the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good engineer	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Summer interenship Project-II(Evaluation)	150506	The primary purpose of doing an academic internship is to better understand the theories, ideas, and practices of your discipline or major by actively engaging in a "hands-on," work-based, learning experience.	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Self Learning/ Preseantation(SWAYAM/ NPTEL/MOOC)	150507	Self Learning through MOOC courses	2019	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/9th%20April%202019.pdf
Design and Analysis of Algorithms	150401	Algorithms and its importance, Algorithm Design Methods (Divide and Conquer Method, Greedy Method, Dynamic Programming, Backtracking), Algorithm Analysis	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Database Management System	150402	SQL, Normalization, Transaction Processing & Concurrency Control	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Operating System	150403	Basics of operating systems, Process management, Memory management, Storage management	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Computer System Organization	150404	Central Processing Unit (CPU), Computer Arithmetic, Microprocessors, Input-Output Organization, Memory Organization	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Programming Lab	150405	Setting up programming environment, running python programs from a terminal, Python: basics, functions, loops, Object oriented concepts, and working with libraries	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Digital Electronics	150301	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Structures	150302	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

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Computer Graphics	150303	Interactive Computer Graphics, Scan Conversion Technique, 2D & 3D Transformations, Clipping	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Object Oriented Programming and Methodology	150304	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Hardware lab	150305	Hardware components, Connections, Buses, Memory Devices, Microprocessor, Input/Output Devices, Networking, Troubleshooting	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Self Learning/ Presentation(SWAYAM/ NPTEL/MOOC)	150306	Self Learning through MOOC courses	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Summer Internship Project-I	150307	In house internship, Evaluation based on Project work and performance	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Dissertation Part-II	620401	The dissertation gives the chance to explore a topic of interest in depth; it gives you practice in essential writing skills; and it should sharpen your capacity for analysis and posing questions.	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Image Processing and Retrieval Techniques	620301	Denoising with different noise models, deblurring with different models, Reflection removal, Image-based forensics, mage compression,	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Network Security	620302	Attacks, Services and Mechanisms, Security Attacks, Security Services, Integrity check, digital Signature, authentication, hash algorithms, Secret Key Cryptography, Hash Functions and Message Digests, Public key Cryptography, Authentication	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Seminar	620303	Seminar Based evaluation	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Dissertation Part-I	620304	A dissertation is a long-form piece of academic writing based on original research conducted by students	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Advance Database Management System	620201	Overview of storage and indexing, Hash Based Indexing, Query Optimization, Object Databases, Distributed Databases	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Soft Computing	620202	Fuzzy logic and its applications, Artificial neural networks and its applications, optimization problmes solving, Soloving multi-objectiove optimization problerms, Applications of Soft computing	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Algorithms and Design	620203	Algorithms Analysis, Asymptotic Notations, Algorithm Design Techniques, Divide And Conquer, Greedy Algorithms, Combinational Search and Optimization, Dynamic Programming, NP - Completeness	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Topics in Data Mining & Warehousing	620204	Online National workshop on "Data Sciences: Techniques and Tools" under TEQIP III	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Adhoc & Sensor Based Networks	620205	MAC & ROUTING IN AD HOC NETWORKS, TRANSPORT & QOS IN AD HOC NETWORKS, MAC & ROUTING IN WIRELESS SENSOR NETWORKS, SECURITY IN AD HOC AND SENSOR NETWORKS	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620206	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620207	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Theoritical Foundation of Computer Science	620101	Sets, relations, equivalence relations, partial orders, functions, Propositional logic, predicate logic, Lambda notation for functions, Tree Structures, Graph structures,	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Distributed System	620102	Distributed Systems: Characterization of Distributed Systems, Distributed Architectural Models, Remote Invocation, security techniques, Mutual Exclusion Algorithms, distributed deadlock detection algorithms, Authentication in distributed systems	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advanced Computer Architecture	620103	Processor Design Concepts, Instruction Pipeline Principles, Pipeline Scheduling Techniques, Superscalar Processing, Cache Memory Principles, Cache Memory Optimizations, Primary and Secondary Storage Systems	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Advanced Computer Networks	620104	Layered communication architecture, Advanced Routing algorithms, Network Congestion Control algorithms, Quality of service, Real Time Transport Protocol, Internetworking, Wireless Networks and Mobile Networks, Mobile IP, Mobile TCP, IP Security	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Mobile Computing &M-Commerce	620105	overview of wireless telephony: cellular concept, GSM, channel structure, location management: HLR-VLR, hierarchical, handoffs, channel allocation in cellular systems, CDMA, GPRS. Wireless Networking, Data management, Mobile Agents computing	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620106	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620107	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
SAD and Software Engineering	680101	Discover what the business is trying to do to reach its objectives by addressing specific problems or opportunities	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Mathematical Foundation of Computer Science	680102	Apply the concepts of mathematics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Programming and Problem Solving in C	680103	Use the techniques, skills and modern tools like new GUI etc necessary for program development	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Computer Organization and Assembly Language Programming	680104	Write Assembly language programs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Communication Skills	680105	Implement professional work habits necessary for effective collaboration and cooperation with others	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Programming Laboratory in C	680106	Design an algorithm solution for a given problem	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Assembly Language Programming Lab	680107	Write the code to access registers and retrieve the memory address of pointers and values.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf

Multimedia Systems	680201	Develop multimedia virtual reality application using some author-ware.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Computer Graphics	680202	Demonstrate their ability to use modern 3D computer graphics techniques, models, and algorithms to solve graphics problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Data Structure	680203	Analyze different data structures technique and pick an appropriate data structure for a design situation.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Computer Oriented Numerical & Statistical Methods	680204	Applying the concepts of the studied topics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Accounting & Management Control	680205	Develop a broad understanding of journal, ledger, cash book and financial statements of a business organization	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Data Structure Programming Lab	680206	Execute appropriate sorting/searching technique for given problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Programming Lab in Computer Graphics	680207	Design and implement models of surfaces, lights, sounds, and textures (with texture transformations) using a 3D graphics API.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Computer Oriented Optimization	680301	Evaluate and Implement suitable techniques relevant for industries and contribute to the society.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Operating System	680302	Apply the various resource management techniques for distributed systems	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Object Oriented Methodology & C++	680303	Design the solution for societal beneficiary problems using C++ features and the Standard Template Library	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Database Management System	680304	Analyze an information storage problem and derive an information model expressed in the form of an entity relation diagram and other optional analysis forms, such as a data dictionary, file and page organizations, indexing methods including B tree, and hashing.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf

Course	Code	Course Outcome	Year	Link
Managerial Economics	680305	Develop an understanding of professional and ethical responsibilities so as to analyze and solve contemporary issue	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Minor Project-I(VB+MySql)	680306	Construct database application system solutions to a broad range of query problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
C++ Programming Lab	680307	Design the classes and constructs for real time software as per societal needs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Theory of Computation	680401	Demonstrate key notions, such as algorithm, computability, decidability, and complexity through problem solving.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Artificial Intelligence and Machine Learning	680402	Develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Unix and Shell Programming (Elective-I)	680403	Identify Unix utilities to create and manage simple file processing operations, as well as more complex tasks.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Java Programming and Technologies	680404	Implement Java programs comprising more than one class, to address a particular software problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Computer Networks and Communication	680405	Justify the use of cryptography, security and networking techniques and other concepts of computer networks for providing better network/applications in society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Minor Project-II (Java and MySQL)	680406	Identify classes, objects, members of a class and relationships among them needed for a specific problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Programming Lab in Unix and Shell Programming	680407	Design a text file with the vi text editor using the standard vi editor commands.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Analysis and Design of Algorithms	680501	Demonstrate a number of standard algorithms for problems in fundamental areas in computer science and engineering such as sorting, searching, and problems involving graphs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf

Course	Code	Outcome	Year	Link
Network and Cyber Security	680502	Evalute appropriate resources to stay abreast of the latest industry tools and techniques analyzing the impact on existing systems and applying to future situations.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Web Technologies and Cloud Computing	680503	Explore some important cloud computing driven commercial systems such as Google Apps, Microsoft Azure and Amazon Web Services and other businesses cloud applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Elective-I (.NET Technologies and C#)	680504	Develop web-based distributed applications using C#, ASP.NET, SQL Server and ADO.NET	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Elective-II (Data Warehousing and Mining)	680505	Select appropriate DM tools and methods for clustering, association, and classification in order to design a data mart or data warehouse for any organization.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Minor Project-III (Web Based Application Using .NET)	680506	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Programming Lab in PHP and Web Technologies	680507	Demonstrate web application using PHP web Framework.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
System Development Project	680601	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/6-10-2018%20for%202019%20batch_compressed.pdf
Architectural Design I	210101	FORM BUILDING(MODELS)and Product Design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Graphics - I	210103	Solve basic problems involving graphics and spatial manipulations for architectural Isometric view: Exterior view of a simple residential building showing all building components. Axonometric view: Axonometric view of a room interior showing all interior components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Workshop - I	210107	Introduction, type of patterns, pattern making, preparation of moulds and moulding equipment detail.Associate properties of different materials and products for designing and model making	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf

Technical English	210109	Enhance the communication skills in English by developing their listening, speaking, reading and writing skills, speaking skills with specific reference to prospective/actual clients, suppliers, business partners and colleagues, reading ability of journals, research articles etc & develop their writing skills especially writing project proposals and reports.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Architectural Design III	210301`	Study of contemporary practices & design for town houses and villas in urban areas, to sensitize the students towards life style, individual preferences, space – activity relationship and exploration of how material, color, texture and light affect the quality of spaces is the main focus. It is also intended as an exercise in massing & configuration of façade elements such as the balancing of solids & voids, adoption of a system of proportioning and elements of contemporary detailing. This design exercise will also attempt to involve the student in the built form / open space relationship & explore the connectivity between indoor & outdoor spaces./ Design independent residential buildings in urban areas with concepts that respond to	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Building Construction II	210302	UNIT-3DETAILS OF DOORS, WINDOWS & VENTILATORS: Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door., Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door.,Timbers Windows & ventilators: Casement(side hug & top hug), Sliding pivoted (horizontal and vertical) foldingand bay windows, fixed light of different sizes and shapes.,Combined doors and windows and ventilators.:Draw types of timber doors, windows, ventilators and its joinery detail.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf

Course	Code	Content	Year	Link
Graphics - III	210303	Exercise will be a group activity; to measure and draw the floor plan along with the plot boundaries, four side elevations, four sections, block plan, site plan of a large building or a settlement with the help of CAD. In addition to this drawing shall be prepared based on examples of buildings by giving a sketch design. Drawings shall be detailed enough to explain the complete design.:Develop Basic skills in visual composition using Graphics	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Architectural Design V	210501	UNIT 1 - MATERIAL STUDIO, Analyzethe culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc UNIT - 2 HEALTHCARE BUILDINGS, Hospitals and Nursing homes are a special category of buildings where functional aspects such as planning, building services & the creation of a sterile environment become important design issues.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Building Construction IV	210502	UNIT-1 BUILDING MATERIALS –IV, UNIT -2 STEEL, UNIT-3 WALL & FLOOR UNIT-4 PARTITIONS & FALSE CEILING:UNIT-5 THERMAL INSULATION AND ACOUSTICS INSULATION	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Building Services II	210503	UNIT-1 ELECTRICAL SERVICES, UNIT-2 ILLUMINATION AND LIGHTING DESIGN, UNIT-3 AIR CONDITIONING ,UNIT-4 PUMPS AND MACHINERIES, UNIT-5 ELECTRICAL AND AC DUCT LAYOUT OF SIMPLE BUILDINGS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Building Science and energy conservation	210504	UNIT-1 CLIMATE &THERMAL COMFORT, UNIT-2 SOLAR GEOMETRY &DESIGN OF SUNSHADING DEVICES UNIT-3 PRINCIPLES OF THERMAL DESIGN IN BUILDINGS ,UNIT-4 VENTILATION & DAY LIGHTING UNIT-5 DESIGN FOR CLIMATIC TYPES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Site planning and Landscaping	210505	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf

Self Study Seminar (SWAYAM) (Sustainable Archtiecture)	210506	This course will help students to seek to minimize the negative environmental impact of buildings by efficiency and moderation in the use of materials, energy, development space and the ecosystem at large.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Architectural Design VII	AR 701	UNIT-1 - The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e, Commercial center, hospital, Study and incorporation of building bye-laws should be complete in this Sem. UNIT-2- The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e. Auditorium, sports cinema, sports complex & educational buildings.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Advance Building Construction I	AR 702	UNIT-1 SPECIAL STRUCTURES, UNIT- 2 ADVANCE CONSTRUCTION SYSTEM,UNIT- 3 PRE STRESSED CONCRETE UNIT- 4 TALL BUILDINGS, UNIT- 5 SHELLS AND FOLDED PLATES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Project Management & Building Economics	AR704	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Elective-II (Conservation)	AR705	Student understands the field of conservation, its techniques and develop a base for practical field work.	2018	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Training	AR901	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Planning Principles & Theories	670101	Present and past paradigms in planning as the distinct perspective(s) from which problems and solutions are being defined. 'object-centred', the 'control-centred', and the 'decision-centred' paradigms.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Socio-Economic Basis for Planning	670102	Anticipations of and response to future needs for social, health and other human services with spatial planning, physical and social features like topography, drainage, climate, population settlements etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Planning Techniques	670103	Methods or processes followed by planners in preparing or evaluating their plans, programs, and policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Infrastructure & Transportation Planning	670104	Defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Housing	670105	fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Studio Course-I	670106	Film appreciation, literature review and area appreciation	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Studio Course-II	670107	Site Planning and prepare city development plan	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Inclusive Urban Planning (Elective -I)	670301	Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Environment, Development and Disaster Management (Elective - II)	670302	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf

Seminar	670303	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Pre- Dissertation	670304	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20April%202019.pdf
Architectural Design II	210201	PROJECT 1(Prototype): SINGLE SPACE DESIGN,PROJECT 2(Prototype): SMALL SCALE MULTI-SPACE DESIGN Enlighten the student on the design project overview & the design process to be followed through relevant presentations. Present an analytical discourse on an identical architectural design project covering Architectural, elements, spaces & terms Noted projects & architects, Space planning etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20MAy%202020%201.pdf
Building Construction I	201202	UNIT-1 LOW-COST CONSTRUCTION - Foundation and wallsin stabilized mud-rammed earth and compact earth blocksIntroduction toLow-cost construction techniques and materials with combinations of mud and terra – cotta. UNIT-2 INTRODUCTION OF BASIC BUILDING COMPONENTS, UNIT-3 WALL, UNIT -4 INTRODUCTION TO OPENINGS UNIT-5 ROOFS - Simple configurations and details of various forms of roofs: Flat, sloped, pyramids and dome.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Course	Code	Description	Year	Link
Graphics - II	210203	UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING - Principles of perspective drawings and understanding of all relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. UNIT-2 TWO POINT PERSPECTIVE VIEW OF BUILDINGS - Construction of Two point perspective grid. UNIT-3 ONE POINT INTERIOR PERSPECTIVE - Construction of One point perspective grid, UNIT-4 SCIOGRAPHY, UNIT-5 MEASURED DRAWING- To measure and draw the Ground Floor Plan along with plot boundaries, four side elevations, two sections, block plan, site plan of existing single storied building	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Workshop - II	210207	Students obtain the ability of model making, basics of rendering, presentation skills using various materials.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Architectural Design IV	210401	PROJECT 1(Prototype): VILLAGE SURVEY & RURAL HOUSING , PROJECT 2(Prototype): DESIGN OF COMMUNITY FACILITIES - Community facilities –Design of Community hall, Nursing home, Youth hostel, Old age home etc., encourage the student to explore concepts an agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Building Construction III	210402	UNIT-1 BUILDING MATERIALS, UNIT -2 RCC FOUNDATION - Introduction to RCC framed structures, concrete foundation: Types of footing – Isolated, combined, continuous, strip raft & piles , UNIT-3 BEAMS AND SLABS, UNIT-4 RETAINING WALL, EXPANSION JOINTS, AND WATERPROOFING - Waterproofing basement, construction of pools, fireplaces, and fuels. Fire safety construction techniques, UNIT-5 CLADDING SYSTEMS & FINISHES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Course Name	Code	Syllabus	Year	Link
Building Services I	210403	UNIT-1 WATER SUPPLY - Sources of water supply – Water Quality - Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit, UNIT-2 DRAINAGE AND SEWAGE DISPOSAL, UNIT-3 SOLID WASTE DISPOSAL, UNIT-4 EMERGING PROCESSING TECHNOLOGIES, UNIT-5 PLUMBING AND FIRE FIGHTING LAYOUT OF SIMPLE BUIDINGS - Designing of toilet blocks in residential and public buildings, showing complete details of fittings and plumbing required for water supply and drainage.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Structure IV	210405	UNIT- 1 PROPERTIES OF STEEL SECTIONS & TYPES OF CONNECTIONS - Design of welded and bolted connections for members subjected to axial forces. Site visit to a steel fabrication unit. UNIT-2 TENSION AND COMPRESSION MEMBERS, UNIT -3 STEEL BEAMS, UNIT-4 STEEL TRUSSES & GIRDERS - Study of the various types of roof trusses , UNIT-5 INTRODUCTION TO LONG SPAN STEEL STRUCTURAL SYSTEMS- Space frame structural system in tubular steel – various types of connectors – single / double & triple grid space frames	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Architectural Design VI	210601	PROJECT I: DESIGN FOR HOSPITALITY INDUSTRY - The project requires the understanding of the special nature and functioning of the hotel industry and to respond with suitable concepts of space planning, circulation, interior design, materials and lighting. PROJECT II: URBAN INFRASTRUCTURE PROJECTS - Contemporary transportation terminals and stadiums are large buildings with multiple entries & exits dealing with large crowds and having multiple levels with large spans, complex services & demanding environmental conditions.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Building Services III (Acoustic & Fire Fighting)	210602	UNIT-1 INTRODUCTION TO THE STUDY OF ACOUSTICS & SOUND TRANSMISSION, ABSORPTION, INSULATION UNIT-2 NOISE CONTROL AND SOUND REINFORCEMENT & ACOUSTICS IN BUILDING DESIGN AND CONSTRUCTION UNIT-3 FIRE FIGHTING SERVICES, UNIT-4 FIRE FIGHTING SYSTEMS & BUILDING NORMS. UNIT-5 FIRE FIGHTING LAYOUT OF BUILDINGS & DESIGN AND DETAILING FOR ACOUSTICS OF MULTIPURPOSE HALLS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Site Planning and Landscaping Architecture	210604	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Elective II (Sustainable Architecture)SWAYAM	210651	The course discusses sustainability principles and concepts from across various domains. Elaborates on sustainability definitions, aspects, dynamic nature of it, and its application in everyday life. Further, it discusses global efforts from UNFCCC, IPCC, and other agencies for developing context-based solutions and climate change mitigation efforts.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Elective II (Structure, Form, Architecture: The Synergy)SWAYAM	210652	Student will learn about tension and compression ; various type of structure types ; arches, dome, vault ; use of these structures in buildings	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Elective III (Housing)	210611	Student will know about the methodes to calculate population density etc; various terminology in housing ; slum problems and factors; types of classes of houses in housing	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Elective III (Interior Design)	210612	Student will know about color schemes ; history of interior in terms of modern era ; evolution in interior design ; interior space importance	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Elective IV (Architectural Journalism)	210614	Enhances the various techniques of Architectural Journalism, changing scenario in the context of globalization, Architectural Journalism in practical.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Urban Design	AR 802	UNIT- 1 INTRODUCTION - Emergence of urban design as a discipline, need for urban design, Elements of urban design(buildings, streets, public spaces, transports, other elements etc. Principles of urban design- creating form and spatial definition in articulation of urban design expression. UNIT- 2 STUDY AND ANALYSIS OF URBAN SPACES IN HISTORY AND MODERN CONCEPTS UNIT- 3 BASIC PRINCIPLES & TECHNIQUES IN URBAN DESIGN, UNIT- 4 RENEWAL, RE-DEVELOPEMENT AND FORMULATING URBAN DESIGN, UNIT- 5 URBAN DESIGN SURVEY AND PRESENTATION - Conducting an urban design survey of Conservation of historic cities, open-spaces, development of market spaces, transit oriented developments, water front development in India.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Elective-IV(Product Design)	AR804	Students learns the process for solving problems by prioritizing the consumer's needs above all else with observing, with empathy and employs an iterative, hands-on approach to creating innovative solutions.	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
"Elective-IV (Interior Design)"	AR805	color schemes ; history of interior in terms of modern era ; evolution in interior design ; interior space importance	2019	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Professional Practice	AR806	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Town Planning	AR605	Student understands the contemporary issues in urban planning, overall understanding of classification of settlements, land-use, zoning and types of development plan, simple Town planning techniques,	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Training	AR1001	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
City & Metropolitan	670201	Planning, finance and manage urban areas. Structures supported by effective land markets, appropriate regulation, good public services, adequate public finance and transparent and accountable city level political systems.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Urban Heritage Conservation	670202	Urban conservation in planning, its techniques and Policies and Programmes, Legislations	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Urban Development Finance & Project Planning	670203	Finance at different stages, investment planning and financing mechanism, project formulation and appraisal, project management and implementation, and project evaluation and monitoring	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf

Legal Issues & Professional	670204	Planning legislation & concepts, urban policy, its nature and process of making urban policy, Professional Practice in planning	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Research Methodology	670205	Basic principles & methods of Research, specifically in Design at Urban scale, and towards helping them conducting their own authentic & independent research. Research basics, defining research problem, Research Design, Developing a Research Plan, Plagiarism, IPR, etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Studio-I	670206	Dynamics of various components of the city and level interventions with multi-dimensional, dynamic and futuristic spaces.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Studio-II	670207	Remote Sensing – Aerial and Satellite; introduction to GIS, Spatial data and Attribute data; Satellite images as input to GIS; Collection and presentation of baseline information.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Thesis Project	670401	Students obtain understanding of standards and conventions of doing dissertation and gain preliminary background information that puts the research in context and to clarify the focus of the study.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/bos%20nov%202019.pdf
Electromagnetic Field Theory	130301	Knowledge of Electromagnetic fields to understand working principle of various power apparatus & machine	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Measurement & Instrumentation	130302	Knowledge of measurement technique for electrical/electronic parameters , accuracy and need of calibration	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Network Analysis	130303	capable of analyzing any given electric/ electroncis networks, concepts of transients and unbalanced three phase supply	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Analog Electronics	130304	Understand the principle, operation and applications of diode, BJT, FET, amplifier etc to develop electronic circuit	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Software Lab - I	130305	MATLAB programing/ Simulink	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf

Course	Code	Objective	Year	Link
Self Learning/Presentation	130306	develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Summer Internship Project -I	130309	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Indian Constitution & Traditional Knowldege (Audit Course)	100006	know the society and its challenges	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Signals & Systems	130501	Understanding fundamental characteristics of Signals & Systems in both time & transform domain. Also to develop mathematical skills to solve problems involving convolution, filtering, modulation and sampling.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Power System-II	130502	Explore the ways and means to perform power system analysis in normal operation and under symmetrical and unsymmetrical faults	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Electrical Machines-II	130503	Develop basic concepts of ac machine, their constrtional details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Power Electronics	130504	Understand the concepts, basic operation, steady state operation of efficient switched-mode power conversion techniques, including basic circuit operation	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Minor Project-I	130505	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Summer Internship Project -II	130506	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Self Learning	130507	Develop skills for self learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Electrical Drives	BEEL701	Overview of complete electric drive system including the mechanical part, electric machine, power converters & control	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf

Course	Code	Description	Year	Link
Switchgear & Protection	BEEL702	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Computer Aided Power System	BEEL703	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Power System Economics	BEEL704 A	Imbibe different practical issues involve such as site selection for power plant, physical layout, performance analysis, relationship between load & power production for grounding in the key concepts of power economics	2015	
Energy Audit & Management	BEEL705 A	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Industrial Training	BEET706	Develop feel of the actual working environment and to gain practical knowledge and skills	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Major Project I	BEED707	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Seminar/Group Discussion	BEES708	develop skills for self learning, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/4.%20BoS%2008.04.2019.pdf
Digital Electronics & Microprocessor	130401	Basic idea about microprocessor & its programming, munber system & codes	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Electrical Machines-I	130402	Develop basic concepts of dc machine and transformer, their construtional details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Control System	130403	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf

Course	Code	Course Outcome	Year	Link
Power System-I	130404	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Software Lab - II	130405	Simulation of electrical systems	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Switchgear & Protection	130601	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Electrical Engineering Materials	130602	Knowledge of different type of material and their use in engineering application	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Minor Project-II	130603	Develop learning in technical, project management and presentation spheres.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Computer Aided Power System Analysis	130611	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Industrial Automation	130612	Understand automation technologies and identify advantages, limitations and applications of thesame.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Transducers & Sensors	130613	Understand the constructions and working principle of different types of sensors and transducers, instrument tranformer, magnetic measuremet, HV measurement etc	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Non Conventional Energy Resources	130651	Understand the need of harnessing alternate energy resources, its chalanges and applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
DC Power Transmission Systems	130652	Gives an introduction to the DC power transmission system using the conventional line commutated converters.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Fuzzy Logic and Neural Networks	130653	Provide the various fundamental concepts of fuzzy logic and artificial neural network to get sufficient knowledge to analyze and design the various intelligent control systems	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf

Course	Code	Description	Year	Link
Energy Conservation & Management	900103	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Soft Computing Techniques	BEEL801	Familiarize with soft computing concepts i.e. idea of ANN, GA, Fuzzy etc.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Uilization of Electrical Energy	BEEL802	Illustrate working principle of electric power utilization and their application in real life	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Process Instrumentation	BEEL803 A	Focuses on imparting the principles of measurement which includes the working mechanism of various sensors and devices, transducers etc	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
High Voltage Engineering	BEEL804 A	Familiarize with high voltage generation and test equipments	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Major Project II	BEED805	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Electrical Industrial Safety & Maintenance	BEEP806	Identify safety hazards and apply the provention applicable and also to scedule the maintenance	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/5.%20BoS%2023.11.2019.pdf
Basic Civil Engineering & Mechanics	100205	Building Materials, applications of remote sensing, measurement of area volume, shear force bending moment	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Planning & Design	110302	Green Buildings, NBC provisions, building bye laws	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Materials & Construction	110303	Fresh and Hardened concrete, damp prevention, anti termite treatment, water proofing	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Surveying	110304	Traversing, curve setting, linear and angular measurement	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Strength of Materials	110305	Stress Strain, euler's buckling load	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Software Lab	110306	drawing of building elements on AutoCAD	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Summer Internship Project - I	110308	Students work on in house projects under various domains.	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Geotechnical Engineering - II	BCEL701	Shallow foundations, deep foundations, pile foundations	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Environmental Engineering - II	BCEL702	sewage treatment plant, sewerage system deisgn	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Advanced Structural Design - I (RCC)	BCEL703	design of water tanks, bridges, prestressed concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Railway, Bridge & Tunnel Engineering	BCEL704	geometrical design, curves, railway stations, construction of tunnels	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Irrigation Engineering	BCEL705	Design of lined and unlined canals	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Training/Internship	BCET706	Field oreinted case studies like bridge, overhead tanks, highway and multistorey buildings, etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Major Project - I	BCEP707	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Construction Planning & Management	BCEL501	time cost optimization using network techniques	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Traffic Engineering	BCEL502	traffic studies, traffic planning	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Water resources Engineering - I	BCEL503	flood estimation, hydrograph analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Fluid Mechanics-II	BCEL504	pipe flow problems, uniform flow in open channels	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Structural Design & Drawing - I (RCC)	BCEL505	design of beams, slabs, columns, footings, staircases	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Theory of Structure - I	BCEL506	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Civil lab	BCEP507	mix design, SPT test	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Management Theory	510101	comparative management styles and approaches	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Materials & Equipments	510102	Concrete mix design, special concrete, prefabrication	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Quantitative Methods	510103	Game Theory, Theory of Probability, Z transform	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Contract Management	510104	claims & arbitrations, construction contracts BOT projects	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Functional Planning Building Services & Maintenance Management	510105	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab-I	510106	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction lab- I	510107	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Infrastructure Project Management	510301	strategic issues in infrastructure development, risk management in infrastructure project	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	510302	Hydrograph analysis, flood estimation, C&D waste management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	510304	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Environmental Chemistry & Microbiology	530101	instrumental methods of analysis, microbiology of water and waste water	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Materials & Equipments	530102	Concrete mix design, special concrete, prefabrication	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Quantitative Methods	530103	Game Theory, Theory of Probability, Z transform	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Solid Waste Management	530104	solid waste treatment, disposal	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Functional Planning Building Services & Maintenance Management	530105	Provision of NBC, Plumbing services	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - I	530106	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Env Lab - I	530107	Water quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Principles & Design of Biological Treatment System	530301	Biological Sewage Treatment techniques	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Urban Hydrology & Waste Management	530302	Hydrograph analysis, flood estimation, C&D waste management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Preliminary Dissertation	530304	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Geotechnical Engineering	110402	permeability of soil, stress distribution in soil, shear strength of soil	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Fluid Mechanics - I	110403	Flow measurement, stoke's law, dimensional analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Structural Analysis	110404	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Course	Code	Topics	Year	Link
Engineering Hydrology	110405	Flood estimation, hydrograph analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Survey Practice Lab	110407	Traversing by total station, Profiling of road	2018	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Advanced Structural Design - II (Steel)	BCEL801	design of water tanks, silos, bridges	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Hydraulic Structure	BCEL802	spillways, energy dissipators, cross drainage works	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Industrial Waste Treatment	BCEL803	Tretament of various industrial wastes, like textile, paper pulp etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Building Environment & Services	BCEL804	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Major Project-II	BCEP805	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Solid Waste, Air & Noise Pollution	BCEL602	solid waste management, air quality improvement	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Environmental Impact Assessment & Ethics	BCEL603	Planning & developing of EIA reports	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Geotechnical Engineering - I	BCEL604	permeability of soil, stress distribution in soil, shear strength of soil	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Structural Design & Drawing - II (Steel)	BCEL605	design of tension members, compression members, plate girders, built up beams	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Theory of Structure - II	BCEL606	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Minor Project	BCEP607	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf

Construction Techniques	510201	various constrcution techniques, prefab	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Economics & Finance	510202	capital budgeting, project risk, financial accounting	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Cost Management	510203	multi criteria decision making methods, multi objective optimization methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Management	510204	project planning & management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Planning Scheduling & Control	510205	resource planning, cost control	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - II	510206	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Lab- II	510207	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	510401	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Air Pollution & Sound Pollution	530201	air pollution control techniques, air quality monitoring, noise pollution control	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - I (Water Supply Engineering)	530202	water treatment plant design, design of distribution system	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - II (Waste Water Engg)	530203	waste treatment plant design	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Management	530204	project planning & management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Impact Assessment & Ethics	530205	Planning & developing of EIA reports	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Computer Lab - II	530206	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Env Lab - II	530207	waste water quality anlysis, air quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	530401	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20April%202018.pdf
Engineering Chemistry	100101	Engineering materials such as polymers, energy production	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Engineering Mathematics - I	100102	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Technical English	100103	Language skills	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Basic Electrical & Electronics Engineering	100104	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Engineering Graphics	100105	Comprehend general projection theory	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Manufacturing Practices	100106	Manufacturing sciences in the day-to-day life	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Engineering Mathematics - III	100003	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Cyber Security	100004	To develop graduates that can plan, implement, and monitor cyber security	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Electronics - II	200401	Deep knowledge in Core Electronic components required in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Electronics - II	140401	Deep knowledge in Core Electronic components required in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf

Course	Code	Outcome	Year	Link
Analog Communication	200402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Analog Communication	140402	Understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Communication Networks	200403	Understand different network systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Communication Networks	140403	Understand different network systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Stochastic Processes in Communication	200404	To gain the knowledge of the basic probability concepts	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Stochastic Processes in Communication	140404	To gain the knowledge of the basic probability concepts	2019	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Hardware Lab	200405	PCB designing	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Hardware Lab	140405	PCB designing	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Antenna and Wave Propagation	BELL601	Antenna design	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Antenna and Wave Propagation	BETL601	Antenna design	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Digital Signal Processing	BELL602	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Digital Signal Processing	BETL602	Fourier transform and signal analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Data Communication	BELL603	layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf

Course	Code	Outcome	Year	Link
Data Communication	BETL603	layered architecture of communication protocols	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Electronic System Design	BELL604	deep knowledge in Core Electronic components required in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Electronic System Design	BETL604	deep knowledge in Core Electronic components required in hardware technology	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Data Structure	BELL609	Ability to analyze algorithms and aalgorithm correctness	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Data Structure	BETL609	Ability to analyze algorithms and aalgorithm correctness	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Integrated Circuit	BELL610	Learn about various techniques to develop A/D and D/A convertors	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Integrated Circuit	BETL610	Learn about various techniques to develop A/D and D/A convertors	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Microcontroller and Embeded System	BELL611	To develop assembly language programming skills	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Microcontroller and Embeded System	BETL611	To develop assembly language programming skills	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Industrial Electronics	BELL605	acquaint the students with advanced industrial circuits and their applications	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Industrial Electronics	BETL605	acquaint the students with advanced industrial circuits and their applications	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Minor Project-I	BELP606	Practical live project	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Minor Project-I	BETL606	Practical live project	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf

Fiber Optics and Optical Communication	8441	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Fiber Optics and Optical Communication	BELL801	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Fiber Optics and Optical Communication	BETL801	Explain the different modes of propagation in an optical fiber	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Satellite Communication	8442	introduce students to the fundamentals of satellite communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Satellite Communication	BELL802	introduce students to the fundamentals of satellite communication	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
TV and Radar Engineering	8443	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
TV and Radar Engineering	BELL803	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
TV and Radar Engineering	BETL803	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Neural Network and Fuzzy Systems	ELL804	Analyze the various feedback networks	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Neural Network and Fuzzy Systems	BETL804	Analyze the various feedback networks	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Image Processing and Pattern Recognition	ELL808	Image enhancement and classifiaction	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Image Processing and Pattern Recognition	BETL808	Image enhancement and classifiaction	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Nanotechnology	ELL809	Apply engineering and physics concepts to the nano-scale and non-continuum domain	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf

Course	Code	Outcome	Year	Link
Nanotechnology	BETL809	Apply engineering and physics concepts to the nano-scale and non-continuum domain	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Biomedical Instrumentation	ELL810	Biomedical system analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Biomedical Instrumentation	BETL810	Biomedical system analysis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Major Project-II	ELL805	Practical live project	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Major Project-II	8445	Practical live project	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Major Project-II	BETP805	Practical live project	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Dissertation Evaluation & Defense	600401	Thesis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Dissertation Evaluation & Defense	610401	Thesis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Engineering Physics	100201	Formulate general mechanics parameters and distinguish between central and noncentral forces.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Energy, Environment, Ecology & Society	100202	To study an environment and ecosystem, To study natural resources	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Basic Computer Engineering	100203	An ability to design, implement, and evaluate a computer-based system, process, components	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Basic Mechanical Engineering	100204	To provide a comprehensive knowledge of basic mechanical systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Language Lab. & Seminars	100206	To implement English vocabulary at command and ensure language proficiency	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf

Course	Code	Outcome	Year	Link
Engineering Mathematics-II	100001	Different numerical methods and equations	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Biology for Engineers (Audit Course)	100002	Biological engineering	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/Oct%202018%201_merged_compressed.pdf
Electronics-I	140301	Deep knowledge in Core Electronic components required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics-I	200301	Deep knowledge in Core Electronic components required in hardware technology	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Circuits and Systems	140302	Develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Circuits and Systems	200302	Develop skills and confidence to conceive and implement a complex digital system	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Network Theory	140303	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Network Theory	200303	Apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Signals and Systems	140304	Fourier Transform, Signal analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Signals and Systems	200304	Fourier Transform, Signal analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Software Lab Introduction to MATLAB	140305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Software Lab Introduction to MATLAB	200305	MATLAB for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Principles of Management & Economics	BELL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

Principles of Management & Economics	BETL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microprocessors & Interfacing	BETL502	To develop assembly language programming skills	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microprocessors & Interfacing	BELL502	To develop assembly language programming skills	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electromagnetic Fields	BETL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electromagnetic Fields	BELL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Optimization Techniques	BETL509	Create different optimization techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Optimization Techniques	BELL509	Create different optimization techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Renewable Energy Resources	BETL510	Environment energy resources analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Renewable Energy Resources	BELL510	Environment energy resources analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Mechatronics	BETL511	Principles of mechanics	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Mechatronics	BELL511	Principles of mechanics	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Linear Control Theory	BELL504	Control systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Linear Control Theory	BETL504	Control systems	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

Course	Code	Description	Year	Link
Digital Communication	BETL505	Communication techniques for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Digital Communication	BELL505	Communication techniques for industry	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics Workshop	BETL506	PCB design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Electronics Workshop	BELP506	PCB design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	7441	Control systems and realiztion techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	BELL701	Control systems and realiztion techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Control System	BETL701	Control systems and realiztion techniques	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microwave Engineering	7442	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microwave Engineering	BELL702	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Microwave Engineering	BETL702	An understanding of microwave waveguides, passive & active devices	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	7443	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	BELL703	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Cellular & Mobile Communication	BETL703	Wireless communication	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

VLSI Design	7444	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
VLSI Design	BELL704	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
VLSI Design	BETL704	Vlsi design, SOC design analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
ATM Networks	ELL705	Operation of ATM networks	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
ATM Networks	BETL705	Operation of ATM networks	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Selected Topics in Communication	ELL709	Advance communication analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Selected Topics in Communication	BETL709	Advance communication analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
CMOS Technology	ELL710	SOC design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
CMOS Technology	BETL710	SOC design	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Data Mining and Warehousing	ELL711	Data analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Data Mining and Warehousing	BETL711	Data analysis	2017	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Communication Systems	600301	Advance topics in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Radar System	600303	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf

Course Name	Code	Description	Year	Link
Dissertation Part-I	600306	Thesis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Advanced Communication Systems	610301	Advance topics in communication systems	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Radar System	610302	principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Dissertation Part-I	610306	Thesis	2018	https://web.mitsgwalior.in/images/Departments/electronics_engineering/April%202018%201_merged_compressed.pdf
Artificial Intelligence & Expert Systems	BITL 701	The course introduces the variety of concepts in the field of artificial intelligence and expert systems. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
IT Infrastructure Management	BITL 703	This course attempts to introduce students to 'real world' risks and challenges in managing infrastructure.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Adhoc Network	BITL 704	Students will learn about a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield, object tracking, habitat monitoring, patient monitoring, fire detection and so on,where Ad-hoc networks are useful.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
E-Commerce	BITL 705	Foundations of E-Business systems, Infrastructure, Functional Areas, Decision Support for E-Business Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Natural Language Processing	BITL 710	The course covers some of the most interesting applications of text mining such as entity linking, relation extraction, text summarization, text classification, sentiment analysis and opinion mining.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Software Engineering and Quality Assurance	BITL 711	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Agile Methodology	BITL 712	This course will explain underpinning philosophy and principles of Agile, lifecycle of an Agile project, including alternative configurations. The products produced during an Agile project and the purpose of these. The techniques used and their benefits and limitations. The roles and responsibilities within an Agile project. The Agile Project Management process can enable planning, management and control for predictable Agile project deliveries.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Networking with TCP/IP	BITL502	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Software Engineering	BITL503	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Microprocessor & Interfacing	BITL504	Understanding of different processors and basic architecture of 16 bit microprocessor and their interfacing with memory and I/O devices, understanding of microcontrollers. Designing of systems using microprocessor and microcontroller.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Theory of Computation	BITL505	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Java Programming	BITL506	Design and development of efficient softwares using java programming that can solve the problem related to different domains.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Internet Technology & Web Desiging	BITL 509	This course covers the basics of the Internet, building a web application, databases, performance and security, and building a mobile application.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Digital Electronics	160301	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Data Structures	160302	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Computer Graphics & Multimedia	160303	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Object Oriented Programming & Methodology	160304	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Digital Electronics	160213	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Course	Code	Description	Year	Link
Data Structures	160211	This course deals with different kind of data structures, which includes linked list, stack, array, tree and sorting. That course makes student to employable and also develop skill to solve algorithm, time complexity, space complexity related problem and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Computer Graphics & Multimedia	160411	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Object Oriented Programming & Methodology	160212	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Hardware Lab	160305	Working of Hardware and sofware components of computer and other peripherals.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Image Processing	BITL801	The intent of this course is to familiarize the students to explain the fundamental concepts/issues of Computer Vision and Image Processing, and major approaches that address them. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration, etc.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Data Warehouse & Data Mining	BITL802	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Neural Networks & Fuzzy Systems	BITL803	This course will start with a brief introduction to fuzzy sets. The differences between fuzzy sets and crisp sets will be identified. Various terms used in the fuzzy sets and the grammar of fuzzy sets will be discussed.Fundamentals of neural networks and various learning methods will then be discussed.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Internet of Things and Applications	BITL804	This course will cover different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Parallel Processing	BITL601	Modern Parallel Computing is a hands-on course involving significant parallel programming on compute-clusters, multi-core CPUs and massive-core GPUs.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Mobile Computing	BITL602	This course covers interesting topics across a variety of mobile systems (wireless LANs, cellular systems, and sensor networks), and revisit the design of the various layers of the networking stack in the context of wireless communication.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Compiler Design	BITL604	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Network & Web Security	BITL605	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Cloud Computing	BITL610	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Design & Analysis of Algorithms	160401	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Database Management System	160402	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf

Operating System	160403	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Computer System Organization	160404	This course is concerned with the structure and behavior of a computer system as observed by the user. It serves as the link between hardware and software. It is involved with the elements of system interconnection. It enables students to design, create, and deploy applications that are better, quicker, cheaper, and more efficient in order to make informed decisions.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Programming Lab	160414	Design and development of efficient softwares using programming concepts that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Programming Lab	160405	Design and development of efficient softwares using programming concepts that can solve the problem related to different domains.	2017	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/2.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20APRIL%202018.pdf
Fluid Mechanics	BCHL302	Pumps, flowmeters and valve	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Material & Energy Balance	BCHL303	Combustion calculation	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Fluid Particle Mechanics	BCHL304	Particales size reduction and screen analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Chemical Engineering Thermodynamics	BCHL305	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf

Measurement & Instrumental Analysis Lab	BCHP306	Accuracy precision and calibration	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Elective-I Fluidization Engineering	BCHL501	Incepient fluidization	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Organic Process Technology	BCHL503	Synthesis of oils	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Mass Transfer -II	BCHL504	Seperation of component waste on difference relative volatility	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Chemical Reaction Engg.-I	BCHL505	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Computational Methods in Chemical Engg.	BCHL506	Optimization of chemical processes	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Chemical Technology Lab	BCHP507	Synthesis of different chemicals	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Elective -II Inorganic Process Technology	BCHL602	Cement industry,Pulp and paper industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Polymer Technology	BCHL603	Application of Polymer by using Technolgy	2017	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202018%20BOS_merged_compressed.pdf

Process Modeling & Simulation	BCHL604	Modelling of reactors, heat exchangers	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Process Equipment Design	BCHL605	Design of evaporators	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Energy Technology	BCHL606	Utilization of energy by using Technolgy	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Process Engineering & Costing	BCHL701	Cost index capatalized cost	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Chemical Reaction Engg.-II	BCHL702	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Transport Phenomena	BCHL703	Couette flow,eflux from circular cone bottom	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Petroleum Processing Technology	BCHL704	Application of petroleaum technology in the process of chemical industry	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202018%20BOS_merged_compressed.pdf
Optimization Techniques	BCHL705	Application of optimization techniques to chemical processes	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202018%20BOS_merged_compressed.pdf
Bio Process Technology	BCHL801	Biorectors, enzyme kinetics	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf

Membrane Seperation Process	BCHL802	Utilization of membrane in different filteration process	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Elective-V Process Safety & Hazards Management	BCHL803	Fall Tree analysis, event tree analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Elective -VI Envioronmental Engineering	BCHL804	Solid, Liquid waste disposal	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Environmental Engg. Lab	BCHP806	Proximate ultimate analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Optimization Techniques in Chemical Engineering	650203	Application of optimization techniques to chemical processes	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/1%20JULy%202018%20BOS_merged_compressed.pdf
Piping Engineering	650301	Application of Piping Engineering in industry	2016	https://drive.google.com/file/d/1FLDupVAvpNrcv67lnFKPceJrmc4sOTPo/view?usp=share_link
Elective II Chemical Reactor Design & Analysis	650302	Modelling of reactors	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Heat Transfer	170402	Lumped parameter for distributed heat transfer equipments	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Mass Transfer –I	170403	Drying of wet solids, Crystalization	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Instrumentation & Process Control	170404	Proximate ultimate analysis	2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf

Mechanical Design of Process Equipment	170405	Design of head and closures		2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Process Control Lab	170407	Flow controllers, level control		2019	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2018-19%20Employbility%20courses_compressed.pdf
Image Processing	BCSL 801	Image Processing Systems, Image Enhancement in spatial Domain, Image Enhancement in Frequency Domain, Image Restoration, Morphological Image Processing, Image Registration, Image Segmentation		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Warehouse and Data Minning	BCSL 802	Data Mining, Data Warehouse and OLTP Technology for Data Mining, Data Pre-processing, Mining Association Rules in Large Databases, Classification & Predication and Cluster Analysis		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Neural Networks & Fuzzy Systems	BCSL 803	Fuzzy Sets, Fuzzy reasoning, Fuzzy clustering, Neural Networks, Multi-layer Feed-Forward Neural Network, Self-Organizing Map Radial Basis FunctionNetwork, Genetic-Fuzzy system; Genetic-Neural System		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Internet of Things and Application	BCSL 804	Training on Internet of Things organized by Advance Tech India Pvt. Ltd		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Major Project-II	BCSD 805	Project Based Learning, Evaluation based on project and presentation		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Artificial Intelligence and Expert Systems	BCSL 701	KNOWLEDGE AND REASONING, UNCERTAIN KNOWLEDGE AND REASONING, PLANNING AND LEARNING, EXPERT SYSTEMS		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Distributed Systems	BCSL 702	Distributed Computing Model, Distributed Share Memory, Distributed File System, Inter Process Communication and Synchronization, Distributed Scheduling and Deadlock		2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Adhoc Networks	BCSL 704	MANET, MANET (MAC, Routng), Opportunistc Mobile Neteorks, UAV neteorks, Wireless Sensor Neteorks		2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Subject	Code	Topics	Year	Link
E-Commerce	BCSL 705	E-commerce and its Technological Aspects, Consumer Oriented E Commerce, Electronic Data Interchange, Security in E Commerce, Issues in E Commerce	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Grid Computing	BCSL 709	Grid Architecture, Open Grid Service Architecture (OGSA), WSRF and Data Grids, Networking Infrastructure, Protocols and Quality of Service, Security, Accounting and Assurance, Grid Scheduling, Resource Management, Resource Brokers, Resource Reservations	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Natural Language Processing	BCSL 710	NLP tasks in syntax, semantics, and pragmatics, The role of language models, Lexical syntax. Hidden Markov Models, Basic Neural Networks, LSTM Recurrent Neural Networks, Syntactic parsing, Semantic Analysis	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Software Testing and Quality Assurance	BCSL 711	Software Structure and Software Testing, Testing Tactics, Testing & Levels, Special Tests, Test Planning	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Agile Methodology	BCSL 712	Fundamentals of Agile, Agile Serum Framework, Agile Testing, Agile, Software Design and Develppment, Industry Trends	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Parallel Processing(E-II)	BCSL601	Multi programming and Time Sharing, Principles of Pipelining, Vector Processing, Array Processing, Multiprocessor Architecture, Programming & Control, Process Synchronization mechanism	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Information Theory & Coding (E-II)	BCSL609	Entropy, its characterization and related properties, Huffman codes, Shannon-Fano coding, Error correcting codes, Convolution encoding, Threshold decoding, Cyclic binary codes, Combinatorial Designs, Network Coding	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Cloud Computing (E-II)	BCSL610	Cloud Computing Architecture, Service Management, Data Management, Resource Management, Cloud Security	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Mobile Computing	BCSL602	Personal Communication Services(PCS), General Packet Radio Services(GPRS), Wireless Application Protocol(WAP), Third Generation (3G) Mobile Services, Wireless Local Loop (WLL)	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Software Project Management	BCSL603	PROJECT EVALUATION AND PROJECT PLANNING, PROJECT LIFE CYCLE AND EFFORT ESTIMATION, ACTIVITY PLANNING AND RISK MANAGEMENT, PROJECT MANAGEMENT AND CONTROL, STAFFING IN SOFTWARE PROJECTS	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Compiler Design	BCSL604	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Network & web Security	BCSL605	Security Principles, Cryptography, Hash Functions, IP & Web Security, Phishing	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Minor Project	BCSP606	In this course the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good engineer	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	BCSS607	Self Study based Course	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	BCSS608	Evaluation based on seminar presentation, and group discussion	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Principle of management & Economics	BCSL501	Introduction to Management, Evolution of Management, Planning, Forecasting and Premising, Decision-making, The Mathematics of Supply and Demand,Demand Elasticity	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Networking with TCP/IP(E-I)	BCSL502	TCP/IP model, Subnetting and Supernetting, TCP and UDP Protocols, Routing Protocols, Troubleshooting Principles	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Internet Technology & web Designing(E-I)	BCSL509	Internet Technology and Protocol, Internet Connectivity , Electronic Mail, Web Publishing and Browsing, HTML Programming Basics, Internet Security Management Concepts	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Management Information System(E-I)	BCSL510	Management Information systems :Types of MIS, Capabilities, Complements, Database management systems, Data Warehousing, Foundations of business intelligence, Data and Text Mining, Strategic Enterprise Systems, Operational Support Systems, Mobile and E-commerce, Knowledge Management	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Software Engineering	BCSL503	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
MicroProcessor & Interfacing	BCSL504	Microprocessors (8086), Basic Peripherals and Interfacing, Special Purpose Programmable Peripheral Devices and Interfacing, Serial and Parallel Data Transfer, Microcontrollers	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Theory of Computation	BCSL505	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab(Java Programming)	BCSP506	Java Programming Basics, Object-oriented programming with Java Classes and Objects, Extending Classes and Inheritance, Exception handling, String Package and Multithreading, Threads, The I/O Package	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	BCSS507	Self Study based Course	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	BCSS508	Evaluation based on seminar presentation, and group discussion	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Design and Analysis of Algorithms	150401	Algorithms and its importance, Algorithm Design Methods (Divide and Conquer Method, Greedy Method, Dynamic Programming, Backtracking), Algorithm Analysis	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Database Management System	150402	SQL, Normalization, Transaction Processing & Concurrency Control	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Operating System	150403	Basics of operating systems, Process management, Memory management, Storage management	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Computer System Organization	150404	Central Processing Unit (CPU), Computer Arithmetic, Microprocessors, Input-Output Organization, Memory Organization	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Course	Code	Contents	Year	Link
Programming Lab	150405	Three Week Workshop under Infosys Campus Connect Program in Collaboration with CodeWar Club on Introduction to Programming and Problem Solving in Python	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Digital Electronics	150301	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Data Structures	150302	Algorithms, Arrya, Linked List, Stack, Queue, Graph, Tree, Searching and Sorting	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Computer Graphics	150303	Interactive Computer Graphics, Scan Conversion Technique, 2D & 3D Transformations, Clipping	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Object Oriented Programming and Methodology	150304	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Hardware lab	150305	Hardware components, Connections, Buses, Memory Devices, Microprocessor, Input/Output Devices, Networking, Troubleshooting	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Self Learning/ Presentation(SWAYAM/ NPTEL/MOOC)	150306	Self Learning through MOOC courses	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Dissertation Part-II	620401	The dissertation gives the chance to explore a topic of interest in depth; it gives you practice in essential writing skills; and it should sharpen your capacity for analysis and posing questions.	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Image Processing and Retrieval Techniques	620301	Denoising with different noise models, deblurring with different models, Reflection removal, Image-based forensics, mage compression,	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf

Network Security	620302	Attacks, Services and Mechanisms, Security Attacks, Security Services, Integrity check, digital Signature, authentication, hash algorithms, Secret Key Cryptography, Hash Functions and Message Digests, Public key Cryptography, Authentication	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Seminar	620303	Seminar Based evaluation	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Dissertation Part-I	620304	A dissertation is a long-form piece of academic writing based on original research conducted by students	2018	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20APRIL%202018.pdf
Advance Database Management System	620201	Overview of storage and indexing, Hash Based Indexing, Query Optimization, Object Databases, Distributed Databases	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Soft Computing	620202	National Workshop on Soft Computing Techniques and its Applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Algorithms and Design	620203	Algorithms Analysis, Asymptotic Notations, Algorithm Design Techniques, Divide And Conquer, Greedy Algorithms, Combinational Search and Optimization, Dynamic Programming, NP - Completeness	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Topics in Data Mining & Warehousing	620204	Data Mining, Applications, Data Mining Models, Data Warehousing and OLAP, Challenges, Tools, Data Mining Principles, Data Preprocessing: Data Preprocessing Concepts, Data Visualization, Data Sets and Their Significance, Classification Models, Association Rules Mining, Cluster Analysis	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Adhoc & Sensor Based Networks	620205	MAC & ROUTING IN AD HOC NETWORKS, TRANSPORT & QOS IN AD HOC NETWORKS, MAC & ROUTING IN WIRELESS SENSOR NETWORKS, SECURITY IN AD HOC AND SENSOR NETWORKS	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620206	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620207	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Subject	Code	Description	Year	Link
Theoritical Foundation of Computer Science	620101	Sets, relations, equivalence relations, partial orders, functions, Propositional logic, predicate logic, Lambda notation for functions, Tree Structures, Graph structures,	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Distributed System	620102	Distributed Systems: Characterization of Distributed Systems, Distributed Architectural Models, Remote Invocation, security techniques, Mutual Exclusion Algorithms, distributed deadlock detection algorithms, Authentication in distributed systems	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advanced Computer Architecture	620103	Processor Design Concepts, Instruction Pipeline Principles, Pipeline Scheduling Techniques, Superscalar Processing, Cache Memory Principles, Cache Memory Optimizations, Primary and Secondary Storage Systems	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advanced Computer Networks	620104	Layered communication architecture, Advanced Routing algorithms, Network Congestion Control algorithms, Quality of service, Real Time Transport Protocol, Internetworking, Wireless Networks and Mobile Networks, Mobile IP, Mobile TCP, IP Security	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Mobile Computing &M-Commerce	620105	overview of wireless telephony: cellular concept, GSM, channel structure, location management: HLR-VLR, hierarchical, handoffs, channel allocation in cellular systems, CDMA, GPRS. Wireless Networking, Data management, Mobile Agents computing	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620106	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620107	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
SAD and Software Engineering	680101	Discover what the business is trying to do to reach its objectives by addressing specific problems or opportunities	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Mathematical Foundation of Computer Science	680102	Apply the concepts of mathematics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf

Programming and Problem Solving in C	680103	Use the techniques, skills and modern tools like new GUI etc necessary for program development	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Computer Organization and Assembly Language Programming	680104	Write Assembly language programs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Communication Skills	680105	Implement professional work habits necessary for effective collaboration and cooperation with others	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Programming Laboratory in C	680106	Design an algorithm solution for a given problem	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Assembly Language Programming Lab	680107	Write the code to access registers and retrieve the memory address of pointers and values.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Multimedia Systems	680201	Develop multimedia virtual reality application using some author-ware.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Computer Graphics	680202	Demonstrate their ability to use modern 3D computer graphics techniques, models, and algorithms to solve graphics problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Data Structure	680203	Analyze different data structures technique and pick an appropriate data structure for a design situation.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Computer Oriented Numerical & Statistical Methods	680204	Applying the concepts of the studied topics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Accounting & Management Control	680205	Develop a broad understanding of journal, ledger, cash book and financial statements of a business organization	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Data Structure Programming Lab	680206	Execute appropriate sorting/searching technique for given problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Programming Lab in Computer Graphics	680207	Design and implement models of surfaces, lights, sounds, and textures (with texture transformations) using a 3D graphics API.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf

Course Name	Code	Course Outcome	Year	Link
Computer Oriented Optimization	680301	Evaluate and Implement suitable techniques relevant for industries and contribute to the society.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Operating System	680302	Apply the various resource management techniques for distributed systems	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Object Oriented Methodology & C++	680303	Design the solution for societal beneficiary problems using C++ features and the Standard Template Library	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Database Management System	680304	Analyze an information storage problem and derive an information model expressed in the form of an entity relation diagram and other optional analysis forms, such as a data dictionary, file and page organizations, indexing methods including B tree, and hashing.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Managerial Economics	680305	Develop an understanding of professional and ethical responsibilities so as to analyze and solve contemporary issue	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Minor Project-I(VB+MySql)	680306	Construct database application system solutions to a broad range of query problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
C++ Programming Lab	680307	Design the classes and constructs for real time software as per societal needs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Theory of Computation	680401	Demonstrate key notions, such as algorithm, computability, decidability, and complexity through problem solving.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Artificial Intelligence and Machine Learning	680402	Develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Unix and Shell Programming (Elective-I)	680403	Identify Unix utilities to create and manage simple file processing operations, as well as more complex tasks.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Java Programming and Technologies	680404	Implement Java programs comprising more than one class, to address a particular software problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf

Computer Networks and Communication	680405	Justify the use of cryptography, security and networking techniques and other concepts of computer networks for providing better network/applications in society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Minor Project-II (Java and MySQL)	680406	Identify classes, objects, members of a class and relationships among them needed for a specific problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Programming Lab in Unix and Shell Programming	680407	Design a text file with the vi text editor using the standard vi editor commands.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Analysis and Design of Algorithms	680501	Demonstrate a number of standard algorithms for problems in fundamental areas in computer science and engineering such as sorting, searching, and problems involving graphs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Network and Cyber Security	680502	Evalute appropriate resources to stay abreast of the latest industry tools and techniques analyzing the impact on existing systems and applying to future situations.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Web Technologies and Cloud Computing	680503	Explore some important cloud computing driven commercial systems such as Google Apps, Microsoft Azure and Amazon Web Services and other businesses cloud applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Elective-I (.NET Technologies and C#)	680504	Develop web-based distributed applications using C#, ASP.NET, SQL Server and ADO.NET	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Elective-II (Data Warehousing and Mining)	680505	Select appropriate DM tools and methods for clustering, association, and classification in order to design a data mart or data warehouse for any organization.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Minor Project-III (Web Based Application Using .NET)	680506	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Programming Lab in PHP and Web Technologies	680507	Demonstrate web application using PHP web Framework.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf

System Development Project	680601	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-4-2018_compressed.pdf
Architectural Design I	210101	FORM BUILDING(MODELS)and Product Design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Graphics - I	210103	Solve basic problems involving graphics and spatial manipulations for architectural Isometric view: Exterior view of a simple residential building showing all building components. Axonometric view: Axonometric view of a room interior showing all interior components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Technical English	210107	Enhance the communication skills in English by developing their listening, speaking, reading and writing skills, speaking skills with specific reference to prospective/actual clients, suppliers, business partners and colleagues, reading ability of journals, research articles etc & develop their writing skills especially writing project proposals and reports.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Workshop - I	210104	U NIT-3Introduction, type of patterns, pattern making, preparation of moulds and moulding equipment detail.Associate properties of different materials and products for designing and model making	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Architectural Design III	210301	Study of contemporary practices & design for town houses and villas in urban areas, to sensitize the students towards life style, individual preferences, space – activity relationship and exploration of how material, color, texture and light affect the quality of spaces is the main focus. It is also intended as an exercise in massing & configuration of façade elements such as the balancing of solids & voids, adoption of a system of proportioning and elements of contemporary detailing. This design exercise will also attempt to involve the student in the built form / open space relationship & explore the connectivity between indoor & outdoor spaces./ Design independent residential buildings in urban areas with concepts that respond to	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf

Course	Code	Syllabus	Year	Link
Building Construction II	210302	UNIT-3DETAILS OF DOORS, WINDOWS & VENTILATORS: Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door., Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door.,Timbers Windows & ventilators: Casement(side hug & top hug), Sliding pivoted (horizontal and vertical) foldingand bay windows, fixed light of different sizes and shapes.,Combined doors and windows and ventilators.:Draw types of timber doors, windows, ventilators and its joinery detail.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Graphics - III	210303	Exercise will be a group activity; to measure and draw the floor plan along with the plot boundaries, four side elevations, four sections, block plan, site plan of a large building or a settlement with the help of CAD. In addition to this drawing shall be prepared based on examples of buildings by giving a sketch design. Drawings shall be detailed enough to explain the complete design.:Develop Basic skills in visual composition using Graphics	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Architectural Design V	AR501	UNIT 1 - MATERIAL STUDIO, Analyzethe culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc UNIT - 2 HEALTHCARE BUILDINGS, Hospitals and Nursing homes are a special category of buildings where functional aspects such as planning, building services & the creation of a sterile environment become important design issues.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Building Construction IV	AR502	UNIT-1 BUILDING MATERIALS –IV, UNIT -2 STEEL, UNIT-3 WALL & FLOOR UNIT-4 PARTITIONS & FALSE CEILING:UNIT-5 THERMAL INSULATION AND ACOUSTICS INSULATION	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Building Services II	AR503	UNIT-1 ELECTRICAL SERVICES, UNIT-2 ILLUMINATION AND LIGHTING DESIGN, UNIT-3 AIR CONDITIONING ,UNIT-4 PUMPS AND MACHINERIES, UNIT-5 ELECTRICAL AND AC DUCT LAYOUT OF SIMPLE BUILDINGS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Building Science and energy conservation	AR504	UNIT-1 CLIMATE &THERMAL COMFORT, UNIT-2 SOLAR GEOMETRY &DESIGN OF SUNSHADING DEVICES UNIT-3 PRINCIPLES OF THERMAL DESIGN IN BUILDINGS ,UNIT-4 VENTILATION & DAY LIGHTING UNIT-5 DESIGN FOR CLIMATIC TYPES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf

Site planning and Landscaping	AR505	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Elective-I (Graphic Design)	AR506	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2018	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Architectural Design VII	AR 701	UNIT-1 - The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e, Commercial center, hospital, Study and incorporation of building bye-laws should be complete in this Sem. UNIT-2- The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e. Auditorium, sports cinema, sports complex & educational buildings.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Advance Building Construction I	AR 702	UNIT-1 SPECIAL STRUCTURES, UNIT- 2 ADVANCE CONSTRUCTION SYSTEM,UNIT- 3 PRE STRESSED CONCRETE UNIT- 4 TALL BUILDINGS, UNIT- 5 SHELLS AND FOLDED PLATES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Project Management & Building Economics	AR704	Students obtain the ability to appreciate the three dimensional implications of design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Elective-II (Conservation)	AR705	Student understands the field of conservation, its techniques and develop a base for practical field work.	2018	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf

Planning History & Theories	670101	Present and past paradigms in planning as the distinct perspective(s) from which problems and solutions are being defined. 'object-centred', the 'control-centred', and the 'decision-centred' paradigms.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Socio-Economic Basis for Planning	670102	Anticipations of and response to future needs for social, health and other human services with spatial planning, physical and social features like topography, drainage, climate, population settlements etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Planning Techniques	670103	Methods or processes followed by planners in preparing or evaluating their plans, programs, and policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Infrastructure & Transportation Planning	670104	Defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Housing & Environmental Planning	670105	fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Studio Course-I	670106	Film appreciation, literature review and area appreciation	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Studio Course-II	670107	Site Planning and prepare city development plan	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Seminar	670303	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Dissertation	670304	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Inclusive Urban Planning (Elective -I)	670301	Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf
Environment, Development and Disaster Management (Elective - II)	670302	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOS%20APRIL%202018.pdf

Architectural Design II	210201	PROJECT 1(Prototype): SINGLE SPACE DESIGN,PROJECT 2(Prototype): SMALL SCALE MULTI-SPACE DESIGN Enlighten the student on the design project overview & the design process to be followed through relevant presentations. Present an analytical discourse on an identical architectural design project covering Architectural, elements, spaces & terms Noted projects & architects, Space planning etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Building Construction I	201202	UNIT-1 LOW-COST CONSTRUCTION - Foundation and wallsin stabilized mud-rammed earth and compact earth blocksIntroduction toLow-cost construction techniques and materials with combinations of mud and terra – cotta. UNIT-2 INTRODUCTION OF BASIC BUILDING COMPONENTS, UNIT-3 WALL, UNIT -4 INTRODUCTION TO OPENINGS UNIT-5 ROOFS - Simple configurations and details of various forms of roofs: Flat, sloped, pyramids and dome.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Graphics - II	210203	UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING - Principles of perspective drawings and understanding of all relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. UNIT-2 TWO POINT PERSPECTIVE VIEW OF BUILDINGS - Construction of Two point perspective grid. UNIT-3 ONE POINT INTERIOR PERSPECTIVE - Construction of One point perspective grid, UNIT-4 SCIOGRAPHY, UNIT-5 MEASURED DRAWING- To measure and draw the Ground Floor Plan along with plot boundaries, four side elevations, two sections, block plan, site plan of existing single storied building	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf

Workshop - II	210204	Students obtain the ability of model making, basics of rendering, presentation skills using various materials.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Architectural Design IV	210401	PROJECT 1(Prototype): VILLAGE SURVEY & RURAL HOUSING , PROJECT 2(Prototype): DESIGN OF COMMUNITY FACILITIES - Community facilities –Design of Community hall, Nursing home, Youth hostel, Old age home etc., encourage the student to explore concepts an agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Building Construction III	210402	UNIT-1 BUILDING MATERIALS, UNIT -2 RCC FOUNDATION - Introduction to RCC framed structures, concrete foundation: Types of footing – Isolated, combined, continuous, strip raft & piles , UNIT-3 BEAMS AND SLABS, UNIT-4 RETAINING WALL, EXPANSION JOINTS, AND WATERPROOFING - Waterproofing basement, construction of pools, fireplaces, and fuels. Fire safety construction techniques, UNIT-5 CLADDING SYSTEMS & FINISHES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Building Services I	210403	UNIT-1 WATER SUPPLY - Sources of water supply – Water Quality - Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit, UNIT-2 DRAINAGE AND SEWAGE DISPOSAL, UNIT-3 SOLID WASTE DISPOSAL, UNIT-4 EMERGING PROCESSING TECHNOLOGIES, UNIT-5 PLUMBING AND FIRE FIGHTING LAYOUT OF SIMPLE BUIDINGS - Designing of toilet blocks in residential and public buildings, showing complete details of fittings and plumbing required for water supply and drainage.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf

Structure IV	210405	UNIT- 1 PROPERTIES OF STEEL SECTIONS & TYPES OF CONNECTIONS - Design of welded and bolted connections for members subjected to axial forces. Site visit to a steel fabrication unit. UNIT-2 TENSION AND COMPRESSION MEMBERS, UNIT -3 STEEL BEAMS, UNIT-4 STEEL TRUSSES & GIRDERS - Study of the various types of roof trusses , UNIT-5 INTRODUCTION TO LONG SPAN STEEL STRUCTURAL SYSTEMS- Space frame structural system in tubular steel – various types of connectors – single / double & triple grid space frames	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Architectural Design VI	AR601	PROJECT I: DESIGN FOR HOSPITALITY INDUSTRY - The project requires the understanding of the special nature and functioning of the hotel industry and to respond with suitable concepts of space planning, circulation, interior design, materials and lighting. PROJECT II: URBAN INFRASTRUCTURE PROJECTS - Contemporary transportation terminals and stadiums are large buildings with multiple entries & exits dealing with large crowds and having multiple levels with large spans, complex services & demanding environmental conditions.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Services III (Acoustic & Fire Fighting)	AR602	UNIT-1 INTRODUCTION TO THE STUDY OF ACOUSTICS & SOUND TRANSMISSION, ABSORPTION, INSULATION UNIT-2 NOISE CONTROL AND SOUND REINFORCEMENT & ACOUSTICS IN BUILDING DESIGN AND CONSTRUCTION UNIT-3 FIRE FIGHTING SERVICES, UNIT-4 FIRE FIGHTING SYSTEMS & BUILDING NORMS. UNIT-5 FIRE FIGHTING LAYOUT OF BUILDINGS & DESIGN AND DETAILING FOR ACOUSTICS OF MULTIPURPOSE HALLS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Site Planning and Landscaping Architecture	AR604	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Town Planning	AR605	Student understands the contemporary issues in urban planning, overall understanding of classification of settlements, land-use, zoning and types of development plan, simple Town planning techniques,	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Elective-II (Vastu)	AR606	This course help students in working at the city and regional level organizations like municipal corporations, development authorities etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Urban desugn	AR 802	UNIT- 1 INTRODUCTION - Emergence of urban design as a discipline, need for urban design, Elements of urban design(buildings, streets, public spaces, transports, other elements etc. Principles of urban design- creating form and spatial definition in articulation of urban design expression. UNIT- 2 STUDY AND ANALYSIS OF URBAN SPACES IN HISTORY AND MODERN CONCEPTS UNIT- 3 BASIC PRINCIPLES & TECHNIQUES IN URBAN DESIGN, UNIT- 4 RENEWAL, RE-DEVELOPEMENT AND FORMULATING URBAN DESIGN, UNIT- 5 URBAN DESIGN SURVEY AND PRESENTATION - Conducting an urban design survey of Conservation of historic cities, open-spaces, development of market spaces, transit oriented developments, water front development in India.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Professional Practice	AR803	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Elective-IV (Interior Design)	AR804	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Training	AR1001	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
City & Metropolitan	670201	Planning, finance and manage urban areas. Structures supported by effective land markets, appropriate regulation, good public services, adequate public finance and transparent and accountable city level political systems.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Urban Heritage Conservation	670202	Urban conservation in planning, its techniques and Policies and Programmes, Legislations	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Urban Development Finance & Project Planning	670203	Finance at different stages, investment planning and financing mechanism, project formulation and appraisal, project management and implementation, and project evaluation and monitoring	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf

Course	Code	Description	Year	Link
Legal Issues & Professional	670204	Planning legislation & concepts, urban policy, its nature and process of making urban policy, Professional Practice in planning	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Research Methodology	670205	Basic principles & methods of Research, specifically in Design at Urban scale, and towards helping them conducting their own authentic & independent research. Research basics, defining research problem, Research Design, Developing a Research Plan, Plagiarism, IPR, etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Studio-I	670206	Dynamics of various components of the city and level interventions with multi-dimensional, dynamic and futuristic spaces.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Studio-II	670207	Remote Sensing – Aerial and Satellite; introduction to GIS, Spatial data and Attribute data; Satellite images as input to GIS; Collection and presentation of baseline information.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Thesis Project	670401	Students obtain understanding of standards and conventions of doing dissertation and gain preliminary background information that puts the research in context and to clarify the focus of the study.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20Oct.%202018_compressed.pdf
Electromagnetic Field Theory	130301	Knowledge of Electromagnetic fields to understand working principle of various power apparatus & machine	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Measurement & Instrumentation	130302	Knowledge of measurement technique for electrical/electronic parameters , accuracy and need of calibration	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Network Analysis	130303	capable of analyzing any given electric/ electroncis networks, concepts of transients and unbalanced three phase supply	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Analog Electronics	130304	Understand the principle, operation and applications of diode, BJT, FET, amplifier etc to develop electronic circuit	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Software Lab - I	130305	MATLAB programing/ Simulink	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf

Course	Code	Course Outcome	Year	Link
Self Learning/Presentation	130306	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Summer Internship Project -I	130307	Learn and sharpen in-demand technical skills	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Principle of Managemant & Economics	BEEL501	Get aware towards varied management principles and practices	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Elective Power Generation and Economy	BEEL502	Understant the need of eneergy and generation and their economical analysis	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Non-Conventional Energy Resources challenges & its applications	BEEL503	Understand the need of harnessing alternate energy resources, its chalanges and applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Control System Design	BEEL504	Understand the role of control engineer in multi disciplinary teams through modelling, design and analysis of physical system, implications of system stability,	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Tansmission & Distribustion	BEEL505	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Electrical Machines-II	BEEL506	Develop basic concepts of ac machine, their construtional details, working principle and characteristic based applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Simulation Lab-III	BEEP507	Simulation of electrical systems	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Self Study	BEES508	Develop skills for self learning	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Seminar & Group Discussion	BEES509	Develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Electrical Drives	BEEL701	Overview of complete electric drive system including the mechanical part, electric machine, power converters & control	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf

Switchgear & Protection	BEEL702	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Computer Aided Power System	BEEL703	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Power System Economics	BEEL704 A	Imbibe different practical issues involve such as site selection for power plant, physical layout, performance analysis, relationship between load & power production for grounding in the key concepts of power economics	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Energy Audit & Management	BEEL705 A	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Industrial Training	BEET706	Develop feel of the actual working environment and to gain practical knowledge and skills	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Major Project I	BEED707	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Seminar/Group Discussion	BEES708	develop skills for self learning, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/2.%20BoS%2020.03.2018.pdf
Digital Electronics & Microprocessor	130401	Basic idea about microprocessor & its programming, munber system & codes	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Electrical Machines-I	130402	Develop basic concepts of dc machine and transformer, their construtional details, working principle and characteristic based applications	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Control System	130403	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf

Power System-I	130404	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Software Lab - II	130405	Simulation of electrical systems	2017	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Computer Aided Design of Power Apparatus & Machines	BEEL601	Understand design of electric machines, transformer etc.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Electrical Machines-III	BEEL602	Develop basic concepts of special machines, their construtional details, working principle and characteristic based applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Power Electronics	BEEL603	Understand the concepts, basic operation, steady state operation of efficient switched-mode power conversion techniques, including basic circuit operation	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Advanced Microprocssor & Interfacing	BEEL604	Understand the interfacing of the external devices to the processor according to the user requirements thus, enabling to create novel products and solutions for real time problems	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Applied Instrumentation	BEEL605	Understand the constructions and working principle of different types of sensors and transducers, instrument tranformer, magnetic measuremet, HV measurement etc	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Power System Analysis and control	BEEL606	Explore the ways and means to perform power system analysis in normal operation and under symmetrical and unsymmetrical faults	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Minor Project	BEEP607	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Self Study	BEES608	Develop skills for self learning	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Seminar & Group Discussion	BEES609	Develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf

Soft Computing Techniques	BEEL801	Familiarize with soft computing concepts i.e. idea of ANN, GA, Fuzzy etc.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Uilization of Electrical Energy	BEEL802	Illustrate working principle of electric power utilization and their application in real life	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Process Instrumentation	BEEL803 A	Focuses on imparting the principles of measurement which includes the working mechanism of various sensors and devices, transducers etc	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
High Voltage Engineering	BEEL804 A	Familiarize with high voltage generation and test equipments	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Major Project II	BEED805	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Electrical Industrial Safety & Maintenance	BEEP806	Learn the techniques for ensuring that electrical equipment is kept in good working order and to learn It involves all management operations within plant for protection	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/3.%20BoS%2006.10.2018.pdf
Material Science	120301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Mechanics of Materials	120302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Theory of Machines –I	120303	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Fluid Mechanics and Hydraulic Machines	120304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Software Lab	120305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	120306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Course Outcome	Year	Link
Summer Internship Project-I (Institute Level) (Evaluation)	120307	Hands on sessions for skill development	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Theory of Machines –II	120401	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Design of Machine Elements	120402	identify, formulate and solve design engineering problems	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Manufacturing Process	120403	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Engineering Thermodynamics	120404	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production Lab	120405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Metrology, Measurement and Control	BMEL- 501	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Aerospace propulsion	BMEL - 502	Concept of aerospace propulsion and different aspects related to them.	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Advance Mechanics of Materials	BMEL - 503	Modern materials and their behavior under different load conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Industrial Engineering	BMEL - 504	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Internal Combustion Engine	BMEL- 505	IC engine analysis at different conditions and their impact	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Machine Design-II	BMEL - 506	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Course Outcome	Year	Link
Simulation Lab – II	BMEP - 507	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Self Study (Internal Assessment)	BMES - 508	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar & Group Discussion (Internal Assessment)	BMES - 509	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Computer Integrated Manufacturing	BMEL- 602	To study smart machine which controlled by computer for accuracy and automation	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Power Plant Engineering	BMEL- 603	Study of plant requirement of thermal aspects	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Operation Research & Supply Chain	BMEL- 604	To optimize machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Turbo Machinery	BMEL- 605	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Dynamics of Machines	BMEL - 606	Analysis of different machine under various load conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Minor Project	BMED -607	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Self Study (Internal Assessment)	BMES - 608	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar & Group Discussion (Internal Assessment)	BMES - 609	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Machine Design-III	BMEL -701	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Refrigeration & Air- Conditioning	BMEL -702	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Description	Year	Link
Robotics & Mechatronics	BMEL -703	Key elements and constituents of a robot	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Heat & Mass Transfer	BMEL-704	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production & Operation & Management	BMEL-705 (i)	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Gas Dynamics	BMEL-705 (ii)	Behaviour of gas under dynamic condition and its effects	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Material Handling systems and Equipment	BMEL-705 (iii)	Industrial material handling problems and solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Non-conventional energy sources	BMEL-705 (iv)	Use of alternative energy, performance and future	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Machine Tool Technology	BMEL-705 (v)	Design of different machine tools for industrial aaplication	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Industrial Training	BMET -706	Skill development using hands on practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project-I	BMED - 707	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Vibration & Noise Control	BMEL - 801	Real-world mechanical vibration problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automobile Engineering	BMEL - 802	Different componenet of vehicle, their design and behavior	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Statistical Quality Control/Statistical Process Control	BMEL - 803	Concepts of reliability, life testing and costing of product	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Emerging Technologies &Management Techniques	BMEL-804 (i)	Latest management technologies to make process more economical and effective	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Description	Year	Link
Advance Welding Technology	BMEL-804 (ii)	Latest welding techniques and application in engineering field	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Optimization Techniques	BMEL-804 (iii)	To optimize machine/process with different techniques, applications and examples	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Maintenance Engineering	BMEL-804 (iv)	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project Management	BMEL-804 (v)	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar/Self Study	BMES -805	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project-II	BMED -806	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Material Science	190301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Mechanics of Materials	190302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Engines	190303	Study of different concepts of IC engine, body and chessis details.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Fluid Mechanics & Hydraulic Machines	190304	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Software lab	190305	ability to make familiar with 2D, 3D modelling and simulation software	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	190306	Skill development of self learning through presentation and group discussion	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Summer Internship Project-I (Institute Level) (Evaluation)	190307	Hands on sessions for skill development	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Outcome	Year	Link
Theory of Machines –I	190401	Apply fundamental of mechanics to machines which include engines, linkages etc	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Electrical and Electronics System	190402	Develop skill of finding faults and rectification of ignition circuits and wiring.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Engineering Thermodynamics	190403	Represent a thermodynamic system by a control mass or control volume and identify work and/or heat interactions between the system and surroundings	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Manufacturing Process	190404	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production Lab	190405	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Entrepreneurship & Management	BAUL - 501	Latest management technologies to make process more economical and effective	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Industrial Engineering	BAUL - 502	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Metrology, Measurement and Control	BAUL - 503	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Operation Research and Supply Chain	BAUL - 504	To optimize machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Component Design	BAUL - 505	Concepts of stress analysis, theories of failure and material science to analyze, design and/or select commonly used Automotive components.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Transmission	BAUL- 506	Develop the basic knowledge of the students in mechanics, torque conversion area	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
LMV Driving Practice	BAUP- 507	Hands on driving practice	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Self Study (Internal Assessment)	BAUS - 508	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar & Group Discussion (Internal Assessment)	BAUS - 509	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
TQM & SQC	BAUL - 602	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Operations Management	BAUL - 603	To optimize machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Design & Assembly Drawing	BAUL - 604	Design and drawing of different vehicles under various load conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Fuels and Pollution Control	BAUL - 605	Different standards of pollution and their control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Computer Integrated Manufacturing	BAUL- 606	To study smart machine which controlled by computer for accuracy and automation	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automotive Maintenance	BAUP- 607	Hands in session for vehicle maintenance, Vehicle service procedure	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Self Study (Internal Assessment)	BAUS - 608	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar & Group Discussion (Internal Assessment)	BAUS - 609	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Vehicle Dynamics	BAUL-701	Forces act on vehicles, performace analysis, design considerations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Refrigeration & Air Conditioning	BAUL-702	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Transport Management and motor vehicle Act	BAUL-703	Different rules and regulations of motor vehicle act	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course	Code	Description	Year	Link
Heat and Mass Transfer	BAUL-704	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Machine Design-III	BAUL-705 (i)	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production & Operation Management	BAUL-705 (ii)	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Off road Vehicle	BAUL-705 (iii)	Vehicle designing and its performance	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Non-conventional energy sources	BAUL-705 (iv)	Use of alternative energy, performance and future	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Industrial Training	BAUT-706	Skill development using hands on practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project-I	BAUD-707	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Vibration & Noise Control	BAUL- 801	Real-world mechanical vibration problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Vehicle Body Engineering	BAUL- 802	Vehicle body structure, component, forces, materials	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Hybrid Electric Vehicle	BAUL- 803	Study of hybrid vehicle, structure, component, use	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Advance Welding Technology	BAUL-804 (i)	Latest welding techniques and application in engineering field	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project Management	BAUL-804 (ii)	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Maintenance Management	BAUL-804 (iii)	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Course Name	Course Code	Outcome	Year	Link
Tyre Technology	BAUL-804 (iv)	Different types of tyre, manufacturing and performance	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Quality Assurance	BAUL-804 (v)	To perform different quality test	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Seminar/ Self Study	BAUS- 805	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Major Project	BAUD- 806	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Optimization Techniques In Mechanical Engineering	560101	To optimize machine/process with different techniques, applications and examples	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Integrated Manufacturing & Resources Planning	560102	Resource management using different approaches	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production Engineering- I	560103	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production & Operation Management	560104	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Ergonomics and Work Study	560105	Various techniques of work-study for improving the productivity of an organization.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Project Management	560106	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Reliability Availability and Maintainability	560107	To check performance of different bearings, analysis of behavior and their relation at different vibration conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
World-Class Manufacturing	560108	Manufacturing aspects, management stretegies and their implementations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Simulation & Modeling Lab. -I	560109	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Production Engineering Lab. – I	560110	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Automation & Robotics in Production	560201	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production Engineering-II	560203	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Total Quality Management	560204	The philosophy and core values of Total Quality Management	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Engineering Estimation & Costing	560205	Latest management technologies to make process more economical and effective	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Flexible Manufacturing System	560206	Study of different manufacturing techniques automation and control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Concurrent Engineering	560207	Study of process using different aspects of engineering	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Logistics & Supply Chain Management	560208	Industrial logistics challeges and their different solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Computer Lab-I	560209	Hands on session for skill developments	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Production Engineering Lab-II	560210	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Computer Integrated Manufacturing	560301	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Maintenance Management	560302	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf

Seminar	560303	Skill development of self learning through presentation and group discussion		2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Dissertation Part – I (Literature review / Problem Formulation/ Synopsis)	560304	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.		2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Dissertation part-II	560401	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.		2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2018-19.pdf
Basic Civil Engineering & Mechanics	100205	Building Materials, applications of remote sensing, measurement of area volume, shear force bending moment	2017		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Planning & Management	CEL701	time cost optimization using network techniques	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Engineering - II	CEL702	sewage treatment techniques, sewage disposal	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Geotechnical Engineering - I	CEL703	permeability of soil, stress distribution in soil, shear strength of soil	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Structural Design - I (RCC)	CEL704	design of water tanks, bridges, prestressed concrete	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Industrial Waste Treatment	CEL705	Tretament of various industrial wastes, like textile, paper pulp etc	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Minor Project-II	CEP706	students work on various field based problems, case study, experimental studies etc	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Tour/Training	CET707	Field oreinted case studies like bridge, overhead tanks, highway and multistorey buildings, etc	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Surveying - II	BCEL302	Traversing, curve setting, linear and angular measurement	2016		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Transportation Engineering - I	BCEL303	geometric design of highways, traffic studies, design of flexible and rigid pavements	2013		https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Concrete Technology	BCEL304	concrete mix deisgn, types of concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Building Design Drawing & Town Planning	BCEL305	NBC provisions, building bye laws	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Civil Engineering Drawing Lab	BCEP306	drawing of building elements on AutoCAD	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Planning & Management	BCEL501	time cost optimization using network techniques	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Traffic Engineering	BCEL502	traffic studies, traffic planning	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Water resources Engineering - I	BCEL503	flood estimation, hydrograph analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Fluid Mechanics-II	BCEL504	pipe flow problems, uniform flow in open channels	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Structural Design & Drawing - I (RCC)	BCEL505	design of beams, slabs, columns, footings, staircases	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Theory of Structure - I	BCEL506	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Civil lab	BCEP507	mix design, SPT test	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Management Theory	510101	comparative management styles and approaches	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Materials & Equipments	510102	Concrete mix design, special concrete, prefabrication	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Quantitative Methods	510103	Game Theory, Theory of Probability, Z transform	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Contract Management	510104	claims & arbitrations, construction contracts BOT projects	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Functional Planning Building Services & Maintenance Management	510105	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab-I	510106	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction lab- I	510107	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Infrastructure Project Management	MCTL931	strategic issues in infrastructure development, risk management in infrastructure project	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Urban Hydrology & Waste Management	MCTL932	Hydrograph analysis, flood estimation, C&D waste management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Preliminary Dissertation	MCTD934	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Chemistry & Microbiology	530101	instrumental methods of analysis, microbiology of water and waste water	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Materials & Equipments	530102	Concrete mix design, special concrete, prefabrication	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Quantitative Methods	530103	Game Theory, Theory of Probability, Z transform	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Solid Waste Management	530104	solid waste treatment, disposal	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Functional Planning Building Services & Maintenance Management	530105	Provision of NBC, Plumbing services	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - I	530106	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Env Lab - I	530107	Water quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Principles & Design of Biological Treatment System	MENL931	Biological Sewage Treatment techniques	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Urban Hydrology & Waste Management	MENL932	Hydrograph analysis, flood estimation, C&D waste management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Preliminary Dissertation	MEND934	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Structural Design - II (Steel)	CEL801	design of water tanks, silos, bridges	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Hydraulic Structure	CEL802	spillways, energy dissipators, cross drainage works	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Geotechnical Engineering - II	CEL803	Shallow foundations, deep foundations, pile foundations	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Building Environment & Services	CEL804	Provision of NBC, Plumbing services	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Major Project	CEP805	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
General Proficiency	CEP806	Overall capacbility of students	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Solid Waste, Air & Noise Pollution	BCEL602	solid waste management, air quality improvement	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Impact Assessment & Ethics	BCEL603	Planning & developing of EIA reports	2017	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Geotechnical Engineering - I	BCEL604	permeability of soil, stress distribution in soil, shear strength of soil	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Subject	Code	Topics	Year	Link
Structural Design & Drawing - II (Steel)	BCEL605	design of tension members, compression members, plate girders, built up beams	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Theory of Structure - II	BCEL606	analysis of beams & frames by various methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Minor Project	BCEP607	students work on various field based problems, case study, experimental studies etc	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Quantity Surveying & Costing	BCEL401	rate analysis, preparation of detailed estimates of buildings, contract	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Fluid Mechanics -I	BCEL402	Flow measurement, stoke's law, dimensional analysis	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Engineering-I	BCEL403	water treatment plant design, design of distribution system	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Building Materials & Construction	BCEL404	Fresh and Hardened concrete, damp prevention, anti termite treatment, water proofing	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Strength of Materials	BCEL405	Stress Strain, euler's buckling load	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Material Testing Lab	BCEP406	strength test of materials	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Idea Generation	BCES407	Evloution of ideas to solve civil problems	2016	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Techniques	510201	various constrcution techniques, prefab	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Economics & Finance	510202	capital budgeting, project risk, financial accounting	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Cost Management	510203	multi criteria decision making methods, multi objective optimization methods	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Course	Code	Description	Year	Link
Project Management	510204	project planning & management	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Planning Scheduling & Control	510205	resource planning, cost control	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - II	510206	MATLAB, Prima Vera, BIM	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Construction Lab- II	510207	Various Tests on Concrete	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	MCTD941	student carry out their research work in various areas	2013	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Air Pollution & Sound Pollution	530201	air pollution control techniques, air quality monitoring, noise pollution control	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - I (Water Supply Engineering)	530202	water treatment plant design, design of distribution system	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Advanced Treatment Process - II (Waste Water Engg)	530203	waste treatment plant design	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Project Management	530204	project planning & management	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Environmental Impact Assessment & Ethics	530205	Planning & developing of EIA reports	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Computer Lab - II	530206	MATLAB, Prima Vera, BIM	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Env Lab - II	530207	waste water quality anlysis, air quality analysis	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf
Dissertation	MEND941	student carry out their research work in various areas	2014	https://web.mitsgwalior.in/images/Departments/Civil/bos%20file/new%20files/BOS%20July%202017%20file.pdf

Course	Code	Outcome	Year	Link
Engineering Physics	100201	Formulate general mechanics parameters and distinguish between central and noncentral forces.	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Energy, Environment, Ecology & Society	100202	To study an environment and ecosystem, To study natural resources	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Basic Computer Engineering	100203	An ability to design, implement, and evaluate a computer-based system, process, components	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Basic Mechanical Engineering	100204	To provide a comprehensive knowledge of basic mechanical systems.	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Language Lab. & Seminars	100206	To implement English vocabulary at command and ensure language proficiency	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics-I	140301	Deep knowledge in Core Electronic components required in hardware technology	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics-I	200301	Deep knowledge in Core Electronic components required in hardware technology	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Circuits and Systems	140302	develop skills and confidence to conceive and implement a complex digital system	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Circuits and Systems	200302	develop skills and confidence to conceive and implement a complex digital system	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Network Theory	140303	apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Network Theory	200303	apply the knowledge of basic circuital law and simplify the network using reduction techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Signals and Systems	140304	Fourier Transform, Signal analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Signals and Systems	200304	Fourier Transform, Signal analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

			2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Software Lab Introduction to MATLAB	140305	MATLAB for industry		
Software Lab Introduction to MATLAB	200305	MATLAB for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Principles of Management & Economics	BELL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Principles of Management & Economics	BETL501	Explore the appropriate methods to initiate, plan, execute, control and close projects	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microprocessors & Interfacing	BELL502	To develop assembly language programming skills	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microprocessors & Interfacing	BETL502	To develop assembly language programming skills	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electromagnetic Fields	BELL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electromagnetic Fields	BETL503	Introduces electromagnetic concepts to the performance of devices, circuits, and systems.	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Optimization Techniques	BELL509	Create different optimization techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Optimization Techniques	BETL509	Create different optimization techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Renewable Energy Resources	BELL510	Environment energy resources analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Renewable Energy Resources	BETL510	Environment energy resources analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Mechatronics	BELL511	Principles of mechanics	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Course	Code	Description	Year	Link
Mechatronics	BETL511	Principles of mechanics	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Linear Control Theory	BELL504	Control systems	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Linear Control Theory	BETL504	Control systems	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Communication	BELL505	Communication techniques for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Communication	BETL505	Communication techniques for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics Workshop	BELP506	PCB design analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics Workshop	BETL506	PCB design analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Advanced Control System	7441	Control systems and realiztion techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Advanced Control System	BELL701	Control systems and realiztion techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Advanced Control System	BETL701	Control systems and realiztion techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Engineering	7442	An understanding of microwave waveguides, passive & active devices	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Engineering	BELL702	An understanding of microwave waveguides, passive & active devices	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Engineering	BETL702	An understanding of microwave waveguides, passive & active devices	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Cellular & Mobile Communication	7443	Wireless communication	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Cellular & Mobile Communication	BELL703	Wireless communication	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Cellular & Mobile Communication	BETL703	Wireless communication	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
VLSI Design	7444	Vlsi design, SOC design analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
VLSI Design	BELL704	Vlsi design, SOC design analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
VLSI Design	BETL704	Vlsi design, SOC design analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
ATM Networks	ELL705	Operation of ATM networks	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
ATM Networks	BETL705	Operation of ATM networks	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Selected Topics in Communication	ELL709	Advance communication analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Selected Topics in Communication	BETL709	Advance communication analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
CMOS Technology	ELL710	SOC design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
CMOS Technology	BETL710	SOC design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Data Mining and Warehousing	ELL711	Data analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Data Mining and Warehousing	BETL711	Data analysis	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Mathematics	600101	Different numerical methods and equations	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Computer Networks	600102	Computer networks system design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
RF Circuits	600103	RF circuit microwave design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Communication	600104	Communication techniques for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Modern Control theory	600105	Control systems and realiztion techniques	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
MATLAB Programming Lab	600106	MATLAB for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
C++ Programming Lab	600107	C++ programming skills	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Mathematics	610101	Different numerical methods and equations	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Devices	610102	An understanding of microwave waveguides, passive & active devices	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Advanced Electromagnetic	610103	Advance electromagnetic and antenna design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Communication	610104	Communication techniques for industry	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
RF Circuits	610105	RF circuit microwave design	2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Hardware Lab I	610106	PCB design analysis		2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Software Lab II	610107	Different software tools		2017	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Engineering Chemistry	100101	Engineering materials such as polymers, energy production	2018		http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Engineering Mathematics - I	100102	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Technical English	100103	Language skills		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Basic Electrical & Electronics Engineering	100104	To expose to the field of electrical & electronics engineering, and to acquire the fundamental knowledge in the field		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Engineering Graphics	100105	Comprehend general projection theory		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Manufacturing Practices	100106	Manufacturing sciences in the day-to-day life		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Mathematics-III	BELL 401	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Mathematics-III	BETL 401	To understand the concepts of basic mathematical methods for matrices, complex numbers and differential calculus		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics II	BELL 402	deep knowledge in Core Electronic components required in hardware technology		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronics II	BETL 402	deep knowledge in Core Electronic components required in hardware technology		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Analog COmmunication	BELL 403	understand and implement the basic analog and digital communication techniques/ circuits used in communication systems		2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Course Name	Code	Outcome	Year	Link
Analog COmmunication	BETL 403	understand and implement the basic analog and digital communication techniques/ circuits used in communication systems	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Network Synthesis and Filter Design	BELL 404	Develop different filter circuits for designing	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Network Synthesis and Filter Design	BETL 404	Develop different filter circuits for designing	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Signals and Systems	BELL 405	Fourier Transform, Signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Signals and Systems	BETL 405	Fourier Transform, Signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Simulation Lab	BELL 406	MATLAB	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Simulation Lab	BETL 406	MATLAB	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Antenna and Wave Propagation	BELL601	Antenna design	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Antenna and Wave Propagation	BETL601	Antenna design	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Signal Processing	BELL602	Fourier transform and signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Signal Processing	BETL602	Fourier transform and signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Data Communication	BELL603	Layered architecture of communication protocols	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Data Communication	BETL603	Layered architecture of communication protocols	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Electronic System Design	BELL604	Deep knowledge in Core Electronic components required in hardware technology	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Electronic System Design	BETL604	Deep knowledge in Core Electronic components required in hardware technology	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Data Structure	BELL609	Ability to analyze algorithms and aalgorithm correctness	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Data Structure	BETL609	Ability to analyze algorithms and aalgorithm correctness	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Integrated Circuit	BELL610	Learn about various techniques to develop A/D and D/A convertors	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Integrated Circuit	BETL610	Learn about various techniques to develop A/D and D/A convertors	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microcontroller and Embeded System	BELL611	To develop assembly language programming skills	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microcontroller and Embeded System	BETL611	To develop assembly language programming skills	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Industrial Electronics	BELL605	Acquaint the students with advanced industrial circuits and their applications	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Industrial Electronics	BETL605	Acquaint the students with advanced industrial circuits and their applications	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Minor Project-I	BELP606	Practical live project	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Minor Project-I	BETL606	Practical live project	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Fiber Optics and Optical Communication	8441	Explain the different modes of propagation in an optical fiber	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Course	Code	Objective	Year	Link
Fiber Optics and Optical Communication	BELL801	Explain the different modes of propagation in an optical fiber	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Fiber Optics and Optical Communication	BETL801	Explain the different modes of propagation in an optical fiber	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Satellite Communication	8442	Introduce students to the fundamentals of satellite communication	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Satellite Communication	BELL802	Introduce students to the fundamentals of satellite communication	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
TV and Radar Engineering	8443	Principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
TV and Radar Engineering	BELL803	Principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
TV and Radar Engineering	BETL803	Principles of operation of various blocks of Radar systems and Radar Range equation in detail.	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Neural Network and Fuzzy Systems	ELL804	Analyze the various feedback networks	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Neural Network and Fuzzy Systems	BETL804	Analyze the various feedback networks	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Image Processing and Pattern Recognition	ELL808	Image enhancement and classifiaction	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Image Processing and Pattern Recognition	BETL808	Image enhancement and classifiaction	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Nanotechnology	ELL809	Apply engineering and physics concepts to the nano-scale and non-continuum domain	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Nanotechnology	BETL809	Apply engineering and physics concepts to the nano-scale and non-continuum domain	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Course	Code	Description	Year	Link
Biomedical Instrumentation	ELL810	Biomedical system analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Biomedical Instrumentation	BETL810	Biomedical system analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Major Project-II	ELL805	Practical live project	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Major Project-II	8445	Practical live project	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Major Project-II	BETP805	Practical live project	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Advanced Microprocessor And embedded Systems	600201	To develop assembly language programming skills	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Control Systems	600202	conceptual evolution of digital control systems and analytical techniques for digital control systems	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Information & Design Coding Theory	600203	To define and apply the basic concepts of information theory	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
(Microwave Circuits Design	600204	An understanding of microwave waveguides, passive & active devices	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Digital Signal Processing	600208	Fourier transform and signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Hardware Lab	600209	PCB design analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Simulation Lab	600210	Different software tools	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Antenna Theory	610201	Antenna design	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf

Course	Code	Description	Year	Link
Microwave Measurement	610202	An understanding of microwave waveguides, passive & active devices	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
(Digital Signal Processing)	610203	Fourier transform and signal analysis	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Circuits Design	610205	An understanding of microwave waveguides, passive & active devices	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Information & Design Coding Theory	610206	To define and apply the basic concepts of information theory	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Microwave Measurement Lab	610207	An understanding of microwave waveguides, passive & active devices	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Simulation Lab	610208	Different software tools	2018	http://103.25.130.79/~mitsgwalior/images/Departments/electronics_engineering/July%202017%20Final_compressed.pdf
Artificial Intelligence and Expert Systems	ITL701	The course introduces the variety of concepts in the field of artificial intelligence and expert systems. It discusses the philosophy of AI, and how to model a new problem as an AI problem. It describes a variety of models such as search, logic, Bayes nets, and MDPs, which can be used to model a new problem. It also teaches many first algorithms to solve each formulation. The course prepares a student to take a variety of focused, advanced courses in various subfields of AI.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Compiler Design & Translator	ITL702	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf

Parallel Processing	ITL703	Modern Parallel Computing is a hands-on course involving significant parallel programming on compute-clusters, multi-core CPUs and massive-core GPUs.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Networking with TCP/IP	ITL704	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Internet Technology & Web Desiging	ITL705	This course covers the basics of the Internet, building a web application, databases, performance and security, and building a mobile application.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Networking with TCP/IP	BITL502	This course would cover the fundamental concepts of computer network and its types. overview of network layer, transport layer and application layer protocols for implementation of computer networking concept	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Software Engineering	BITL503	This course would be focused on the basic concepts of To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. Brief overview To understand project management and risk management associated with various types of projects, to know basics of testing and understanding concept of software quality assurance and software configuration management process.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Microprocessor & Interfacing	BITL504	Understanding of different processors and basic architecture of 16 bit microprocessor and their interfacing with memory and I/O devices, understanding of microcontrollers. Designing of systems using microprocessor and microcontroller.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf

Course	Code	Description	Year	Link
Theory of Computation	BITL505	This course deals with concepts of TOC, which includes about finite autometa, regular grammer, context free grammer, CSL and turing machine. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Java Programming	BITL506	Design and development of efficient softwares using java programming that can solve the problem related to different domains.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Internet Technology & Web Desiging	BITL 509	This course covers the basics of the Internet, building a web application, databases, performance and security, and building a mobile application.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Digital Electronics	BITL302	This is a comprehensive course on digital electronics training. The goal of the course is to learn the digital format of data and codes. It will assist students in understanding Number Systems, Numeric Codes, Logic Gates, Combinational Circuits, Sequential Circuits etc. for digital circuit-based applications.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Object Oriented Programming and Methodology	BITL303	This course deals with programming fundamentals, which includes variable decleration, control structures, functions, class, object and OOP concepts. That course makes student to employable and also develop skill related to Object Oriented programming and software development.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Computer Graphics	BITL304	This course would be focused on the basic concepts of computer graphics techniques and display devices, to enhance the proficiency in image representations, 2D and 3D graphics transformations. Brief overview to develop awareness with various illumination, color models and multimedia system.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf

Course	Code	Description	Year	Link
Operating System	BITL305	It explains the concepts of interface working the computers in broader way. It gives the internal workings of the operating system in the conceptual manner.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Hardware Lab	BITL306	Working of Hardware and sofware components of computer and other peripherals.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Cellular and Mobile Communication	ITL801	This course covers interesting topics across a variety of mobile systems (wireless LANs, cellular systems, and sensor networks), and revisit the design of the various layers of the networking stack in the context of wireless communication.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Data Warehouse & Data Mining	ITL802	The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Fiber Optics and Optical Communication	ITL803	This course is intended to expose the students to the physical layer elements and seamlessly provide a transition from the physical layer issues to data link layer issues in optical communication systems and networks.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Neural Networks & Fuzzy Systems	ITL804	This course will start with a brief introduction to fuzzy sets. The differences between fuzzy sets and crisp sets will be identified. Various terms used in the fuzzy sets and the grammar of fuzzy sets will be discussed.Fundamentals of neural networks and various learning methods will then be discussed.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Parallel Processing	BITL601	Modern Parallel Computing is a hands-on course involving significant parallel programming on compute-clusters, multi-core CPUs and massive-core GPUs.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf

Mobile Computing	BITL602	This course covers interesting topics across a variety of mobile systems (wireless LANs, cellular systems, and sensor networks), and revisit the design of the various layers of the networking stack in the context of wireless communication.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Compiler Design	BITL604	This course deals with concepts of COmpile design, which includes lexical analyzer, syntax analyzer, sementics, ICG, code optimization and code ganeration. That course makes student to employable and also develop skill to solve different kind of newmerical problem those include in competative examinations.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Network & Web Security	BITL605	This course would cover the fundamentals of cryptography, hash functions and authentication mechanisms. Overview of IP and web security. Application of number theory and various algorithms for web security.	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Cloud Computing	BITL610	Clouds, Virtualization and Virtual Machine,Consensus, Paxos and Recovery in Clouds, Cloud Storage, P2P Systems and their use in Industry Systems	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Discrete Structures	BITL401	Graph theory, Mathematical Modeling, solution of recurrence relation	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Design & Analysis of Algorithms	BITL402	It provides the fundametal concepts of Algorithms design and its analysis in terms of time and space complextiy. It also teaches popular problem of the computer science with the help of concept development and coding	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Database Management System	BITL403	It is a collection of concept that enables the students to create and maintain a database. It provide the fundamental teminalogy to develop the full-fledge databases and it applicabity in the different domains.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf

Course	Code	Description	Year	Link
Computer Networks	BITL404	This course would be focused on the basic concepts of computer network and its types, concepts of communication using different types of layes. Brief overview of Presentation,Session& Application Layer	2015	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Computer System Organization	BITL405	This course is concerned with the structure and behavior of a computer system as observed by the user. It serves as the link between hardware and software. It is involved with the elements of system interconnection. It enables students to design, create, and deploy applications that are better, quicker, cheaper, and more efficient in order to make informed decisions.	2014	https://web.mitsgwalior.in/images/Departments/information_technology/BoS/BoS%20Proceedings/1.%20BoS%20PROCEEDING%20MEETING%20HELD%20ON%2007%20JULY%202017.pdf
Transport Phenomena	CHL701	Couette flow,eflux from circular cone bottom	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Optimization Techniques	CHL702	Application of optimization techniques to chemical processes	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Chemical Reaction Engg.-II	CHL703	Seven steps of catalysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Process Equiment Design -II	CHL704	Design of shell and tube heat exchanger by kern's method	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Petroleum Processing Technology	CHL705	Application of petroleaum technology in the process of chemical industry	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Process Engineering & Costing	CHL801	Cost index capatalized cost	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%202016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf

Bio Process Technology	CHL802	Biorectors, enzyme kinetics	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Membrane Seperation Processes	CHL803	Pervoration Technique, Reverse osmosis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Elective-II Process Safety & Hazard Management	CHL804	Fall Tree analysis, event tree analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Material Science & Technology	BCHL301	Study of phase diagrams	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Fluid Mechanics	BCHL302	Pumps, flowmeters and valve	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Material & Energy Balance	BCHL303	Combustion calculation	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Fluid Particle Mechanics	BCHL304	Particales size reduction and screen analysis	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Chemical Engineering Thermodynamics	BCHL305	Ideal and non ideal mixer and solutions	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Measurement & Instrumental Analysis Lab	BCHP306	Accuracy precision and calibration	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf

Heat Transfer	BCHL402	lumped parameter for distributed heat transfer equipments	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Mass Transfer - I	BCHL403	Drying of wet solids, Crystalization	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Process Dynamics & Control	BCHL404	PID Controllers,Stablity analysis of process	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Mechanical Design of Process Equipment	BCHL405	Design of head and closures	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Computer Aided Process Calculations Lab	BCHP406	Analysis of data using excell,Access	2016	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Elective-I Fluidization Engineering	BCHL501	Incepient fluidization	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Nano Technology	BCHL502	Utilization of nano particle by using different Technology	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Organic Process Technology	BCHL503	Synthesis of oils	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Mass Transfer -II	BCHL504	Seperation of component waste on difference relative volatility	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf

Chemical Reaction Engg.-I	BCHL505	Reactors and flow analysis	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Computational Methods in Chemical Engg.	BCHL506	Optimization of chemical processes	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Chemical Technology Lab	BCHP507	Synthesis of different chemicals	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Elective -II Inorganic Process Technology	BCHL602	Cement industry,Pulp and paper industry	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Process Modeling & Simulation	BCHL604	Modelling of reactors, heat exchangers	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Process Equipment Design	BCHL605	Design of evaporators	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Energy Technology	BCHL606	Utilization of energy by using Technolgy	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Piping Engineering	MCHL931	Application of Piping Engineering in industry	2016	http://103.25.130.79/~mitsgwalior/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/2%20JULy%202017%20BOS_merged_compressed.pdf
Advanced Mass Transfer	650102	Multicompnent seperation	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf

Computational Fluid Dynamics	650103	Tensor analysis of fluid motion	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Advanced Chemical Reaction Engineering	650104	Mass transfer with chemical reaction	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Environmental Pollution, Monitoring and Control	650105	Advanced water treatment techniques	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
CFD Lab	650106	Fluent analysis of flow patterns	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
CRE Lab	650107	Kinetic study of reactions	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Chemical Process Modeling & Simulation	650201	Simulation of higher order equation oriented system	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Advanced Process Control	650202	Cascade control, feed forward control	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Optimization Techniques in Chemical Engineering	650203	Simplex method big-M Method	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Risk Analysis & HAZOP	650204	HAZOP,HAZAN	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf

Scale Up Methods	650205	Scale Up of Chemical Industrial Process	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Lab - I (Simulation Lab)	650206	Simulatrion of object oriented models	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Lab - II (Mass Transfer Lab)	650207	Vapour Liquid Equllibrium	2017	https://web.mitsgwalior.in/images/Departments/chemical_engineering/NAAC%20FILE%2016.12.22/naac%20criteria%201%20updated/2017-18%20EMPLOYBILITY%20COURSE.pdf
Advance operating systems	CSL 801	Virtualization, Parallelism, Distributed Systems, Real-Time and multimedia, System Recovery	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Data Warehouse and Data Minning	CSL 802	Two Days Workshop Big Data and Hadoop	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Neural Networks & Fuzzy Systems	CSL 803	Fuzzy Sets, Fuzzy reasoning, Fuzzy clustering, Neural Networks, Multi-layer Feed-Forward Neural Network, Self-Organizing Map Radial Basis FunctionNetwork, Genetic-Fuzzy system; Genetic-Neural System	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Cellular and Mobile communication	CSL 804	WIRELESS MOBILE COMMUNICATION, CELLULAR CONCEPT AND SYSTEM DESIGN FUNDAMENTALS, MOBILE RADIO PROPAGATION, MODULATION AND SIGNAL PROCESSING	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Major Project-II	CSD 805	Project Based Learning, Evaluation based on project and presentation	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	CSS 806	Self Study based Course	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	CSS 807	Evaluation based on seminar presentation, and group discussion	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Artificial Intelligence and Expert Systems	CSL 701	KNOWLEDGE AND REASONING, UNCERTAIN KNOWLEDGE AND REASONING, PLANNING AND LEARNING, EXPERT SYSTEMS	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Compiler Design & Translator	CSL 702	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Course Name	Course Code	Topics	Year	Link
Parallel Processing	CSL 703	Multi programming and Time Sharing, Principles of Pipelining, Vector Processing, Array Processing, Multiprocessor Architecture, Programming & Control, Process Synchronization mechanism	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Networking with TCP/IP	CSL 704	TCP/IP model, Subnetting and Supernetting, TCP and UDP Protocols, Routing Protocols, Troubleshooting Principles	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Internet Technology & web Designing	CSL 705	Internet Technology and Protocol, Internet Connectivity , Electronic Mail, Web Publishing and Browsing, HTML Programming Basics, Internet Security Management Concepts	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Major Project-I	CSD 706	Project Based Learning, Evaluation based on project and presentation	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	CSS 707	Self Study based Course	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	CSS 708	Evaluation based on seminar presentation, and group discussion	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Parallel Processing(E-II)	BCSL601	Multi programming and Time Sharing, Principles of Pipelining, Vector Processing, Array Processing, Multiprocessor Architecture, Programming & Control, Process Synchronization mechanism	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Information Theory & Coding (E-II)	BCSL609	Entropy, its characterization and related properties, Huffman codes, Shannon-Fano coding, Error correcting codes, Convolution encoding, Threshold decoding, Cyclic binary codes, Combinatorial Designs, Network Coding	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Cloud Computing (E-II)	BCSL610	Two Days Workshop Big Data and Hadoop	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Mobile Computing	BCSL602	Personal Communication Services(PCS), General Packet Radio Services(GPRS), Wireless Application Protocol(WAP), Third Generation (3G) Mobile Services, Wireless Local Loop (WLL)	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Software Project Management	BCSL603	PROJECT EVALUATION AND PROJECT PLANNING, PROJECT LIFE CYCLE AND EFFORT ESTIMATION, ACTIVITY PLANNING AND RISK MANAGEMENT, PROJECT MANAGEMENT AND CONTROL, STAFFING IN SOFTWARE PROJECTS	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Compiler Design	BCSL604	Translation Process, Lexical Analysis, Syntax Analysis, Semantic Analysis, Code Generation and Code Optimization	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Network & web Security	BCSL605	Security Principles, Cryptography, Hash Functions, IP & Web Security, Phishing	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Minor Project	BCSP606	In this course the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good engineer	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	BCSS607	Self Study based Course	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	BCSS608	Evaluation based on seminar presentation, and group discussion	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Principle of management & Economics	BCSL501	Introduction to Management, Evolution of Management, Planning, Forecasting and Premising, Decision-making, The Mathematics of Supply and Demand,Demand Elasticity	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Networking with TCP/IP(E-I)	BCSL502	TCP/IP model, Subnetting and Supernetting, TCP and UDP Protocols, Routing Protocols, Troubleshooting Principles	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Internet Technology & web Designing(E-I)	BCSL509	Internet Technology and Protocol, Internet Connectivity , Electronic Mail, Web Publishing and Browsing, HTML Programming Basics, Internet Security Management Concepts	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Management Information System(E-I)	BCSL510	Management Information systems :Types of MIS, Capabilities, Complements, Database management systems, Data Warehousing, Foundations of business intelligence, Data and Text Mining, Strategic Enterprise Systems, Operational Support Systems, Mobile and E-commerce, Knowledge Management	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Course	Code	Topics	Year	Link
Software Engineering	BCSL503	Requirement Engineering, Software Metrics, Project Management and Estimation, Software Testing	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
MicroProcessor & Interfacing	BCSL504	Microprocessors (8086), Basic Peripherals and Interfacing, Special Purpose Programmable Peripheral Devices and Interfacing, Serial and Parallel Data Transfer, Microcontrollers	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Theory of Computation	BCSL505	Automata, Computability and Complexity, Push down Automata, Turing Machine, Decidability	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab(Java Programming)	BCSP506	Java Programming Basics, Object-oriented programming with Java Classes and Objects, Extending Classes and Inheritance, Exception handling, String Package and Multithreading, Threads, The I/O Package	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Self Study	BCSS507	Self Study based Course	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/ Group Discussion	BCSS508	Evaluation based on seminar presentation, and group discussion	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Discrete Structure	BCSL 401	Sets, Functions, Propositional logic, Graph Theory, Group Theory	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Design & Analysis of Algorithms	BCSL 402	Algorithms and its importance, Algorithm Design Methods (Divide and Conquer Method, Greedy Method, Dynamic Programming, Backtracking), Algorithm Analysis	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Database Management System	BCSL 403	SQL, Normalization, Transaction Processing & Concurrency Control	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Computer Networks	BCSL 404	Networking Protocols, OSI Reference Model & TCP/IP Reference Model	2015	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Computer System Organization	BCSL 405	Central Processing Unit (CPU), Computer Arithmetic, Microprocessors, Input-Output Organization, Memory Organization	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Unix/Linux Lab	BCSP406	Unix/Linux Installation Process, Hardware Requirements for Unix/Linux, Features of Linux/Unix Operating System, Kernel, Kernel Functions, The Shell Basic Commands, Shell Programming, File System, Process Control, System Security	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Course	Code	Topics	Year	Link
Idea Generation	BCSS407	Design Thinking, Preparing Your Mind for Innovation, Idea Generation, Experimentation	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Communication Skill	BCSS408	Nature and Scope of Communication, Process of Communication, Barriers to communication, Non-Verbal Communication, Effective Communication, Communication Network in an Organization, VERBAL COMMUNICATION	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Mathmatics-III	BCSL301	Function of Complex variable, Statistical Techniques, Numerical Techniques, Integral Transforms	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Digital Electronics	BCSL302	Number System, Boolean Algebra, Boolean Functions, Boolean Relations, Digital Logic Gates, Combinational Circuits, Sequential Circuits, Memory Decoding, Sequential Programmable Devices	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Object Oriented Programming and Methodology	BCSL303	Object Oriented Concepts, Programming Techniques, Classes & Objects, Constructors and Destructors, Polymorphism, Inheritance, Pointer & File Concept	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Computer Graphics	BCSL304	Interactive Computer Graphics, Scan Conversion Technique, 2D & 3D Transformations, Clipping	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Operating System	BCSL305	Basics of operating systems, Process management, Memory management, Storage management	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Hardware Lab	BCSP306	Hardware components, Connections, Buses, Memory Devices, Microprocessor, Input/Output Devices, Networking, Troubleshooting	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Seminar/Presentation/ GD	BCSS307	Evaluation based on seminar presentation, and group discussion	2016	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Database Management System	620201	Overview of storage and indexing, Hash Based Indexing, Query Optimization, Object Databases, Distributed Databases	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Soft Computing	620202	National Workshop on Soft Computing Techniques and its Applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Advance Algorithms and Design	620203	Algorithms Analysis, Asymptotic Notations, Algorithm Design Techniques, Divide And Conquer, Greedy Algorithms, Combinational Search and Optimization, Dynamic Programming, NP - Completeness	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advance Topics in Data Mining & Warehousing	620204	Data Mining, Applications, Data Mining Models, Data Warehousing and OLAP, Challenges, Tools, Data Mining Principles, Data Preprocessing: Data Preprocessing Concepts, Data Visualization, Data Sets and Their Significance, Classification Models, Association Rules Mining, Cluster Analysis	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Adhoc & Sensor Based Networks	620205	MAC & ROUTING IN AD HOC NETWORKS, TRANSPORT & QOS IN AD HOC NETWORKS, MAC & ROUTING IN WIRELESS SENSOR NETWORKS, SECURITY IN AD HOC AND SENSOR NETWORKS	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620206	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620207	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Theoritical Foundation of Computer Science	620101	Sets, relations, equivalence relations, partial orders, functions, Propositional logic, predicate logic, Lambda notation for functions, Tree Structures, Graph structures,	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Distributed System	620102	Distributed Computing Model, Distributed Share Memory, Distributed File System, Inter Process Communication and Synchronization, Distributed Scheduling and Deadlock	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Advanced Computer Architecture	620103	Processor Design Concepts, Instruction Pipeline Principles, Pipeline Scheduling Techniques, Superscalar Processing, Cache Memory Principles, Cache Memory Optimizations, Primary and Secondary Storage Systems	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf

Advanced Computer Networks	620104	Layered communication architecture, Advanced Routing algorithms, Network Congestion Control algorithms, Quality of service, Real Time Transport Protocol, Internetworking, Wireless Networks and Mobile Networks, Mobile IP, Mobile TCP, IP Security	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Mobile Computing &M-Commerce	620105	overview of wireless telephony: cellular concept, GSM, channel structure, location management: HLR-VLR, hierarchical, handoffs, channel allocation in cellular systems, CDMA, GPRS. Wireless Networking, Data management, Mobile Agents computing	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-I	620106	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
Lab-II	620107	Lab Based Implementation	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/07%20JULY%202017.pdf
SAD and Software Engineering	680101	Discover what the business is trying to do to reach its objectives by addressing specific problems or opportunities	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Mathematical Foundation of Computer Science	680102	Apply the concepts of mathematics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Programming and Problem Solving in C	680103	Use the techniques, skills and modern tools like new GUI etc necessary for program development	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Computer Organization and Assembly Language Programming	680104	Write Assembly language programs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Communication Skills	680105	Implement professional work habits necessary for effective collaboration and cooperation with others	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Programming Laboratory in C	680106	Design an algorithm solution for a given problem	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Assembly Language Programming Lab	680107	Write the code to access registers and retrieve the memory address of pointers and values.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf

Subject	Code	Outcome	Year	Link
Multimedia Systems	680201	Develop multimedia virtual reality application using some author-ware.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Computer Graphics	680202	Demonstrate their ability to use modern 3D computer graphics techniques, models, and algorithms to solve graphics problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Data Structure	680203	Analyze different data structures technique and pick an appropriate data structure for a design situation.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Computer Oriented Numerical & Statistical Methods	680204	Applying the concepts of the studied topics to the suitable technique for relevant industries and contribution to the society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Accounting & Management Control	680205	Develop a broad understanding of journal, ledger, cash book and financial statements of a business organization	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Data Structure Programming Lab	680206	Execute appropriate sorting/searching technique for given problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Programming Lab in Computer Graphics	680207	Design and implement models of surfaces, lights, sounds, and textures (with texture transformations) using a 3D graphics API.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Computer Oriented Optimization	680301	Evaluate and Implement suitable techniques relevant for industries and contribute to the society.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Operating System	680302	Apply the various resource management techniques for distributed systems	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Object Oriented Methodology & C++	680303	Design the solution for societal beneficiary problems using C++ features and the Standard Template Library	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Database Management System	680304	Analyze an information storage problem and derive an information model expressed in the form of an entity relation diagram and other optional analysis forms, such as a data dictionary, file and page organizations, indexing methods including B tree, and hashing.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf

Managerial Economics	680305	Develop an understanding of professional and ethical responsibilities so as to analyze and solve contemporary issue	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Minor Project-I(VB+MySql)	680306	Construct database application system solutions to a broad range of query problems.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
C++ Programming Lab	680307	Design the classes and constructs for real time software as per societal needs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Theory of Computation	680401	Demonstrate key notions, such as algorithm, computability, decidability, and complexity through problem solving.	2014	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Artificial Intelligence and Machine Learning	680402	Develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Unix and Shell Programming (Elective-I)	680403	Identify Unix utilities to create and manage simple file processing operations, as well as more complex tasks.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Java Programming and Technologies	680404	Implement Java programs comprising more than one class, to address a particular software problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Computer Networks and Communication	680405	Justify the use of cryptography, security and networking techniques and other concepts of computer networks for providing better network/applications in society	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Minor Project-II (Java and MySQL)	680406	Identify classes, objects, members of a class and relationships among them needed for a specific problem.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Programming Lab in Unix and Shell Programming	680407	Design a text file with the vi text editor using the standard vi editor commands.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Analysis and Design of Algorithms	680501	Demonstrate a number of standard algorithms for problems in fundamental areas in computer science and engineering such as sorting, searching, and problems involving graphs.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf

Subject	Code	Outcome	Year	Link
Network and Cyber Security	680502	Evalute appropriate resources to stay abreast of the latest industry tools and techniques analyzing the impact on existing systems and applying to future situations.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Web Technologies and Cloud Computing	680503	Explore some important cloud computing driven commercial systems such as Google Apps, Microsoft Azure and Amazon Web Services and other businesses cloud applications	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Elective-I (.NET Technologies and C#)	680504	Develop web-based distributed applications using C#, ASP.NET, SQL Server and ADO.NET	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Elective-II (Data Warehousing and Mining)	680505	Select appropriate DM tools and methods for clustering, association, and classification in order to design a data mart or data warehouse for any organization.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Minor Project-III (Web Based Application Using .NET)	680506	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Programming Lab in PHP and Web Technologies	680507	Demonstrate web application using PHP web Framework.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
System Development Project	680601	Recognize the professional ethics and team management principles.	2017	https://web.mitsgwalior.in/images/Departments/Computer-Science/BOS/MCA%20BOS/7-7-2017_compressed.pdf
Architectural Design I	210101	UNIT-4 FORM BUILDING(MODELS)and UNIT 5: Product Design	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Graphics - I	210103	Solve basic problems involving graphics and spatial manipulations for architectural Isometric view: Exterior view of a simple residential building showing all building components. Axonometric view: Axonometric view of a room interior showing all interior components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

English Language (Architectural Appreciation)	210106	Enhance the communication skills in English by developing their listening, speaking, reading and writing skills, speaking skills with specific reference to prospective/actual clients, suppliers, business partners and colleagues, reading ability of journals, research articles etc & develop their writing skills especially writing project proposals and reports.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Workshop - I	210107	Students obtain the ability to appreciate the three dimensional implications of design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Architectural Design III	Ar 301	Study of contemporary practices & design for town houses and villas in urban areas, to sensitize the students towards life style, individual preferences, space – activity relationship and exploration of how material, color, texture and light affect the quality of spaces is the main focus. It is also intended as an exercise in massing & configuration of façade elements such as the balancing of solids & voids, adoption of a system of proportioning and elements of contemporary detailing. This design exercise will also attempt to involve the student in the built form / open space relationship & explore the connectivity between indoor & outdoor spaces./ Design independent residential buildings in urban areas with concepts that respond to	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Construction II	AR 302	UNIT-3DETAILS OF DOORS, WINDOWS & VENTILATORS: Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door., Timber Doors and its Joints: Single, double-leaf, ledged braced & battened door, framed ledged braced &battened door, Paneled door, flush door, and Composite door.,Timbers Windows & ventilators: Casement(side hug & top hug), Sliding pivoted (horizontal and vertical) foldingand bay windows, fixed light of different sizes and shapes.,Combined doors and windows and ventilators.:Draw types of timber doors, windows, ventilators and its joinery detail.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Course	Code	Description	Year	Link
Surveying, Levelling and site planning	AR 306	Exercise will be a group activity; to measure and draw the floor plan along with the plot boundaries, four side elevations, four sections, block plan, site plan of a large building or a settlement with the help of CAD. In addition to this drawing shall be prepared based on examples of buildings by giving a sketch design.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Architectural Design V	AR501	UNIT 1 - MATERIAL STUDIO, Analyzethe culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc UNIT - 2 HEALTHCARE BUILDINGS, Hospitals and Nursing homes are a special category of buildings where functional aspects such as planning, building services & the creation of a sterile environment become important design issues.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Construction IV	AR502	UNIT-1 BUILDING MATERIALS –IV, UNIT -2 STEEL, UNIT-3 WALL & FLOOR UNIT-4 PARTITIONS & FALSE CEILING:UNIT-5 THERMAL INSULATION AND ACOUSTICS INSULATION	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Services II	AR503	UNIT-1 ELECTRICAL SERVICES, UNIT-2 ILLUMINATION AND LIGHTING DESIGN, UNIT-3 AIR CONDITIONING ,UNIT-4 PUMPS AND MACHINERIES, UNIT-5 ELECTRICAL AND AC DUCT LAYOUT OF SIMPLE BUILDINGS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Science and energy conservation	AR504	UNIT-1 CLIMATE &THERMAL COMFORT, UNIT-2 SOLAR GEOMETRY &DESIGN OF SUNSHADING DEVICES UNIT-3 PRINCIPLES OF THERMAL DESIGN IN BUILDINGS ,UNIT-4 VENTILATION & DAY LIGHTING UNIT-5 DESIGN FOR CLIMATIC TYPES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Site planning and Landscaping	AR505	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4 DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Elective-I (Graphic Design)	AR506	Student understands the construction, changing trends and lifestyles innovations and design ideas.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Design VII	A411	UNIT-1 - The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e, Commercial center, hospital, Study and incorporation of building bye-laws should be complete in this Sem. UNIT-2- The range of design problems shall include projects of progressively increasing complexity. Exercises related to public buildings i.e. Auditorium, sports cinema, sports complex & educational buildings.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/28-06-131-compressed.pdf
Adv. Building Construction VI	A412	UNIT-1 SPECIAL STRUCTURES, UNIT- 2 ADVANCE CONSTRUCTION SYSTEM,UNIT- 3 PRE STRESSED CONCRETE UNIT- 4 TALL BUILDINGS, UNIT- 5 SHELLS AND FOLDED PLATES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/28-06-131-compressed.pdf
Town Planning	A415	classification of settlements, land-use, zoning and types of development plan, simple Town planning techniques,	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/28-06-131-compressed.pdf
Elective-II (Conservation)	AR705	Student understands the field of conservation, its techniques and develop a base for practical field work.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Practical Training	AR 511	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Planning History & Theories	670101	Present and past paradigms in planning as the distinct perspective(s) from which problems and solutions are being defined. 'object-centred', the 'control-centred', and the 'decision-centred' paradigms.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Socio-Economic Basis for Planning	670102	Anticipations of and response to future needs for social, health and other human services with spatial planning, physical and social features like topography, drainage, climate, population settlements etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Planning Techniques	670103	Methods or processes followed by planners in preparing or evaluating their plans, programs, and policies.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Infrastructure & Transportation Planning	670104	Defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Housing & Environmental Planning	670105	fundamental concepts and theories of Housing and apply them in their design projects, various types of Housing and its components.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Studio Course-I	670106	Film appreciation, literature review and area appreciation	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Studio Course-II	670107	Site Planning and prepare city development plan	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Inclusive Urban Planning (Elective -I)	670301	Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Environment, Development and Disaster Management (Elective - II)	670302	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Seminar	670303	Identification of key issues related to the area of planning & understanding of standards and conventions of doing research.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Dissertation	670304	Standards and conventions of doing research and gain preliminary background information that puts the research in contemporary context and undertake research on past initiatives and future possibilities in the area.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Architectural Design II	210201	PROJECT 1(Prototype): SINGLE SPACE DESIGN,PROJECT 2(Prototype): SMALL SCALE MULTI-SPACE DESIGN Enlighten the student on the design project overview & the design process to be followed through relevant presentations. Present an analytical discourse on an identical architectural design project covering Architectural, elements, spaces & terms Noted projects & architects, Space planning etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Construction I	201202	UNIT-1 LOW-COST CONSTRUCTION - Foundation and wallsin stabilized mud-rammed earth and compact earth blocksIntroduction toLow-cost construction techniques and materials with combinations of mud and terra – cotta. UNIT-2 INTRODUCTION OF BASIC BUILDING COMPONENTS, UNIT-3 WALL, UNIT -4 INTRODUCTION TO OPENINGS UNIT-5 ROOFS - Simple configurations and details of various forms of roofs: Flat, sloped, pyramids and dome.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Graphics - II	210203	UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING - Principles of perspective drawings and understanding of all relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. UNIT-2 TWO POINT PERSPECTIVE VIEW OF BUILDINGS - Construction of Two point perspective grid. UNIT-3 ONE POINT INTERIOR PERSPECTIVE - Construction of One point perspective grid, UNIT-4 SCIOGRAPHY, UNIT-5 MEASURED DRAWING- To measure and draw the Ground Floor Plan along with plot boundaries, four side elevations, two sections, block plan, site plan of existing single storied building	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Workshop - II	210204	Students obtain the ability of model making, basics of rendering, presentation skills using various materials.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Architectural Design IV	AR 401	PROJECT 1(Prototype): VILLAGE SURVEY & RURAL HOUSING , PROJECT 2(Prototype): DESIGN OF COMMUNITY FACILITIES - Community facilities –Design of Community hall, Nursing home, Youth hostel, Old age home etc., encourage the student to explore concepts an agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Construction III	AR 402	UNIT-1 BUILDING MATERIALS, UNIT -2 RCC FOUNDATION - Introduction to RCC framed structures, concrete foundation: Types of footing – Isolated, combined, continuous, strip raft & piles , UNIT-3 BEAMS AND SLABS, UNIT-4 RETAINING WALL, EXPANSION JOINTS, AND WATERPROOFING - Waterproofing basement, construction of pools, fireplaces, and fuels. Fire safety construction techniques, UNIT-5 CLADDING SYSTEMS & FINISHES	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Services - I	AR 403	UNIT-1 WATER SUPPLY - Sources of water supply – Water Quality - Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit, UNIT-2 DRAINAGE AND SEWAGE DISPOSAL, UNIT-3 SOLID WASTE DISPOSAL, UNIT-4 EMERGING PROCESSING TECHNOLOGIES, UNIT-5 PLUMBING AND FIRE FIGHTING LAYOUT OF SIMPLE BUIDINGS - Designing of toilet blocks in residential and public buildings, showing complete details of fittings and plumbing required for water supply and drainage.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Site planning and Landscaping	AR406	HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE, INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS , DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES, SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Architectural Design VI	AR 601	PROJECT I: DESIGN FOR HOSPITALITY INDUSTRY - The project requires the understanding of the special nature and functioning of the hotel industry and to respond with suitable concepts of space planning, circulation, interior design, materials and lighting. PROJECT II: URBAN INFRASTRUCTURE PROJECTS - Contemporary transportation terminals and stadiums are large buildings with multiple entries & exits dealing with large crowds and having multiple levels with large spans, complex services & demanding environmental conditions.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Building Construction V	AR 602	UNIT-1 INTRODUCTION TO THE STUDY OF ACOUSTICS & SOUND TRANSMISSION, ABSORPTION, INSULATION UNIT-2 NOISE CONTROL AND SOUND REINFORCEMENT & ACOUSTICS IN BUILDING DESIGN AND CONSTRUCTION UNIT-3 FIRE FIGHTING SERVICES, UNIT-4 FIRE FIGHTING SYSTEMS & BUILDING NORMS. UNIT-5 FIRE FIGHTING LAYOUT OF BUILDINGS & DESIGN AND DETAILING FOR ACOUSTICS OF MULTIPURPOSE HALLS.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Advanced building services	AR 603	UNIT-1 INTRODUCTION& ELEMENTS OF LANDSCAPE ARCHITECTURE AND LANDSCAPE DESIGN UNIT-2 HISTORY OF LANDSCAPE ARCHITECTURE & URBAN LANDSCAPE UNIT-3 INTRODUCTION TO SITE ANALYSIS & SITE INFLUENCING FACTORS UNIT-4DESIGN OF LANDFORMS IN A SITE & SITE PLANNING PRINCIPLES AND TECHNIQUES UNIT-5 SITE CHARACTERISTICS AND DESIGN REQUIREMENTS& LANDSCAPE EXERCISE.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Specification, Estimation and costing	AR 604	Student can estimate the costing and specification of small porjects and underssstands about the successful implementation of the project to know about the material required and cost to be incurred before starting a new project.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Town Planning	AR 605	Student understands the contemporary issues in urban planning, overall understanding of classification of settlements, land-use, zoning and types of development plan, simple Town planning techniques,	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Working Drawing	AR 607	UNIT- 1 BUILDING DRAWING Centre line plan, Foundation plan, Structural grid plan (in case of framed structures), Basement floor plan, Ground floor plan, Typical floor plan, All elevations, All sections: one at least through staircase and one through toilet, Terrace floor plan giving details of surface drawing etc, UNIT-2 SERVICES, UNIT- 3 SPECIFICATION, UNIT- 4 MATERIALS- Glass Plywood and laminates Hardware Electrical wires and accessories Water supply and plumbing: fittings and fixtures flooring and cladding.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf
Elective-II (Vastu)	AR606	This course help students in working at the city and regional level organizations like municipal corporations, development authorities etc.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Urban desugn	A422	UNIT- 1 INTRODUCTION - Emergence of urban design as a discipline, need for urban design, Elements of urban design(buildings, streets, public spaces, transports, other elements etc. Principles of urban design- creating form and spatial definition in articulation of urban design expression. UNIT- 2 STUDY AND ANALYSIS OF URBAN SPACES IN HISTORY AND MODERN CONCEPTS UNIT- 3 BASIC PRINCIPLES & TECHNIQUES IN URBAN DESIGN, UNIT- 4 RENEWAL, RE-DEVELOPEMENT AND FORMULATING URBAN DESIGN, UNIT- 5 URBAN DESIGN SURVEY AND PRESENTATION - Conducting an urban design survey of Conservation of historic cities, open-spaces, development of market spaces, transit oriented developments, water front development in India.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/28-06-131-compressed.pdf
Professional Practice	A423	UNIT- 1 THE PROFESSIONAL ROLE OF AN ARCHITECT & SERVICES RENDERED, UNIT- 2 ARCHITECTURAL COMPETITIONS & LEGISLATIONS- Regulations governing the conduct of competitions, Types of competition (open & closed competitions), appointment & duties of Assessors, instructions to participants, award of premium, UNIT- 3 EASEMENTS& ARBITRATION- Easement Rights –Definition, characteristics of an easement, Natural Rights ,Various easement rights- Easement of support, Easement of light and air, Easement of right of way, Easement of eave projection, etc , UNIT- 4 TENDER & CONTRACT, UNIT- 5 VALUATION& RENT.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/28-06-131-compressed.pdf
Professional Training	A521	Students get the acquisition of knowledge, skills and experience for operating under an expert in a particular field or area of specialisation.	2017	https://web.mitsgwalior.in/images/Departments/architecture_planning/BOS/BOARD%20OF%20STUDIES%20MEETING%20July%202017.pdf

Course Name	Code	Outcome	Year	Link
Electrical Engineering Material	BEEL301	Knowledge of different type of material and their use in engineering application	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Measurement & Instrumentation	BEEL302	Knowledge of measurement technique for electrical/electronic parameters , accuracy and need of calibration	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Network Analysis	BEEL303	Capable of analyzing any given electric/ electroncis networks, concepts of transients and unbalanced three phase supply	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Analog Electronics	BEEL304	Understand the principle, operation and applications of diode, BJT, FET, amplifier etc to develop electronic circuit	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Electromagnetic Field Theory	BEEL305	Knowledge of Electromagnetic fields to understand working principle of various power apparatus & machine	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Simulation Lab-I	BEEP306	MATLAB programing/ Simulink	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Idea Generation	BEES307	Deep pondering of ideas regarding innovative solutions	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Communication Skills	BEEP308	Write effectively for a variety of contexts and audiences	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Principle of Managemant & Economics	BEEL501	Get aware towards varied management principles and practices	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Elective Power Generation and Economy	BEEL502	Understant the need of eneergy and generation and their economical analysis	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Non-Conventional Energy Resources challenges & its applications	BEEL503	Understand the need of harnessing alternate energy resources, its chalanges and applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Control System Design	BEEL504	Understand the role of control engineer in multi disciplinary teams through modelling, design and analysis of physical system, implications of system stability,	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Tansmission & Distribustion	BEEL505	Understand various types transmission & distribution system, economic aspects of power generation, analyse the performance of transmission lines, distribution systems, insulators and cables.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Electrical Machines-II	BEEL506	Develop basic concepts of ac machine, their construtional details, working principle and characteristic based applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf

Course	Code	Description		Year	Link
Simulation Lab-III	BEEP507	Simulation of electrical systems		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Self Study	BEES508	Develop skills for self learning		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Seminar & Group Discussion	BEES509	Develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork.		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Electrical Drives	EEL701	Overview of complete electric drive system including the mechanical part, electric machine, power converters & control		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Control System	EEL702	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability		2014	
Computer Aided Power System	EEL703	Basic concepts of load flow studies, voltage stabilty and its enhencement, AI applications in power system		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
High Voltage Engineering	EEL704 B	Familiarize with high voltage generation and test equipments		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Energy Audit & Management	EEL705 A	Various terminology, rules & regulations, policy of enegy audit, energy tarriff, economics & analysis, enegy conservations		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Industrial Training	EET706	Develop feel of the actual working environment and to gain practical knowledge and skills		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Major Project I	EED707	Develop learning in technical, project management and presentation spheres.		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Self Study/Seminar	EES708	develop skills for self learning, improve communication skills, increase self-confidence, and build teamwork.		2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Mathematics-III	BEEL401	Apply mathamatics to complex real-world problems		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Electrical Machines-I	BEEL402	Develop basic concepts of dc machine and transformer, their constructional details, working principle and characteristic based applications		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Digital Electronics & Microprocessor	BEEL403	Basic idea about microprocessor & its programming, munber system & codes		2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf

Linear Control Systems	BEEL404	Understand the role of control engineer in multi disciplinary teams through modelling and analysis of physical system, implications of system stability	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Signals & Systems	BEEL405	Understanding fundamental characteristics of Signals & Systems in both time & transform domain. Also to develop mathematical skills to solve problems involving convolution, filtering, modulation and sampling.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Simulation Lab-II	BEES406	Simulation of electrical systems	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
GD/Seminar	BEES407	Develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Integrated Ethics & Aptitude	BEES408	helps to look at his own life critically and to evaluate his actions/choices/decisions	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Computer Aided Design of Power Apparatus & Machines	BEEL601	Understand design of electric machines, transformer etc.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Electrical Machines-III	BEEL602	Develop basic concepts of special machines, their constructional details, working principle and characteristic based applications	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Power Electronics	BEEL603	Understand the concepts, basic operation, steady state operation of efficient switched-mode power conversion techniques, including basic circuit operation	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Advanced Microprocssor & Interfacing	BEEL604	Understand the interfacing of the external devices to the processor according to the user requirements thus, enabling to create novel products and solutions for real time problems	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Applied Instrumentation	BEEL605	Understand the constructions and working principle of different types of sensors and transducers, instrument tranformer, magnetic measuremet, HV measurement etc	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Power System Analysis and control	BEEL606	explore the ways and means to perform power system analysis in normal operation and under symmetrical and unsymmetrical faults	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Minor Project	BEEP607	Develop learning in technical, project management and presentation spheres.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf

Course Name	Code	Description	Year	Link
Self Study	BEES608	Develop critical thinking skills, improve communication skills, increase self-confidence, andself learning	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Seminar & Group Discussion	BEES609	Develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork.	2015	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Switchgear & Protection	EEL801	Explore to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible in operation.	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Uilization of Electrical Energy	EEL802	Illustrate working principle of electric power utilization and their application in real life	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Process Instrumentation	EEL803 A	focuses on imparting the principles of measurement which includes the working mechanism of various sensors and devices, transducers etc	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Soft Computing Techniques	EEL804 A	Familiarize with soft computing concepts i.e. idea of ANN, GA, Fuzzy etc.	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Major Project II	EED805	Develop learning in technical, project management and presentation spheres.	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Computer Simuation Lab	EEP806	Develop software skills and ability to design, execute and operate circuit demonstrating their different feature.	2014	https://web.mitsgwalior.in/images/Departments/electrical_engineering/BoS/BoS_07.07.2017.pdf
Mechanics of Materials-I	BMEL-302	Calculate stresses and deformations of objects under external loadings	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Manufacturing Process	BMEL-303	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Thermodynamics	BMEL-304	Study various laws of thermodynamics for system analysis	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Material Science	BMEL-305	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Machine Drawing Lab	BMEP-306	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

Course	Code	Outcome	Year	Link
Machine Design-I	BMEL-401	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Metal Cutting and Machine Tools	BMEL-402	develop fundamental knowledge on tool materials, cutting fluids and tool wear mechanisms	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Theory of Machine-I	BMEL-403	Apply fundamental of mechanics to machines which include engines, linkages etc	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Fluid Mechanics	BMEL-404	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Thermal Engineering	BMEL-405	Study of various cycles and their applications	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Simulation Lab –I	BMEP-406	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Metrology, Measurement and Control	BMEL- 501	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Aerospace propulsion	BMEL - 502	Concept of aerospace propulsion and different aspects related to them.	2016	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Advance Mechanics of Materials	BMEL - 503	Modern materials and their behavior under different load conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Industrial Engineering	BMEL - 504	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Internal Combustion Engine	BMEL- 505	IC engine analysis at different conditions and their impact	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Machine Design-II	BMEL - 506	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Simulation Lab – II	BMEP - 507	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

Self Study (Internal Assessment)	BMES - 508	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar & Group Discussion (Internal Assessment)	BMES - 509	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Computer Integrated Manufacturing	BMEL- 602	To study smart machine which controlled by computer for accuracy and automation	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Operation Research & Supply Chain	BMEL- 604	To optimize machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Turbo Machinery	BMEL- 605	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Dynamics of Machines	BMEL - 606	Analysis of different machine under various load conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Minor Project	BMED -607	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Self Study (Internal Assessment)	BMES - 608	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar & Group Discussion (Internal Assessment)	BMES - 609	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Machine Design-III	MEL701	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Turbo Machinery	MEL702	velocity triangles, thermodynamic plots and losses in turbo machinery	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Advanced Production Tech. & CAM	MEL703	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

Course	Code	Description	Year	Link
Heat & Mass Transfer	MEL704	comprehensive of physical science and its fundamentals applicable to the engineering discipline	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Production & Operation & Management	MEL705 (I)	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Non conventional energy sources	MEL705(II)	Use of alternative energy, performance and future	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Material & Handling	MEL705(III)	Industrial material handling problems and solutions	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Computer Integrated Manufacturing	MEL705(IV)	To study smart machine which controlled by computer for accuracy and automation	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Machine Tool Technology	MEL705(V)	Design of different machine tools for industrial aaplication	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Industrial Training	MET706	Skill development using hands on practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Project-I	MED707	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Vibration & Noise Control	MEL801	Real-world mechanical vibration problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automobile Engg.	MEL802	Different componenet of vehicle, their design and behavior	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Refrigeration & Air- Conditioning	MEL803	Principles and different methods of refrigeration and air conditioning	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Emerging Technologies & Management Techniques	MEL804 (I)	Latest management technologies to make process more economical and effective	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
SQC/SPC	MEL804 (II)	To inspect product using SQC techniques to avoid defective parts	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

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Maintenance Management	MEL804(IV)	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar/Self Study	MES805	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Project-II	MED 806	Apply Engineering knowledge for society/industries projects/problems	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Materials Science	BAUL-301	different classes of materials, their properties, structures and imperfections present in them	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Strength of Materials	BAUL-302	Material behavior at different load conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Manufacturing Processes	BAUL-303	manage manufacturing processes and systems for the best use of material and human resources	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive Engines	BAUL-304	Study of different concepts of IC engine, body and chessis details.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Thermodynamics and thermal engineering	BAUL-305	Study various laws of thermodynamics for system analysis	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Machine Drawing Lab	BAUP-306	ability to use the techniques, skills and modern design engineering tools necessary for engineering practice	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive chassis	BAUL-402	Understand vehicle chassis structure and components of transmission lines.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Kinematics and dynamics of machines	BAUL-403	Machine parts behavior at different conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Fluid Mechanics	BAUL-404	knowledge of fluid, its properties and behavior under various conditions of internal and external flows.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive electrical and electronic system	BAUL-405	Develop skill of finding faults and rectification of ignition circuits and wiring.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

Simulation Lab	BAUP-406	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar/ Presentation/ GD	BAUS-407	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Entrepreneurship & Management	BAUL - 501	Latest management technologies to make process more economical and effective	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Industrial Engineering	BAUL - 502	Apply Engineering knowledge for the betterment of their organization or society	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Metrology, Measurement and Control	BAUL - 503	Types of errors, design of limit gauges and various comparative measurements	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Operation Research and Supply Chain	BAUL - 504	To optimize machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive Component Design	BAUL - 505	Concepts of stress analysis, theories of failure and material science to analyze, design and/or select commonly used Automotive components.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive Transmission	BAUL- 506	Develop the basic knowledge of the students in mechanics, torque conversion area	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
LMV Driving Practice	BAUP- 507	Hands on driving practice	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Self Study (Internal Assessment)	BAUS - 508	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar & Group Discussion (Internal Assessment)	BAUS - 509	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
TQM & SQC	BAUL - 602	The philosophy and core values of Total Quality Management	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

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Operations Management	BAUL - 603	To optimizate machine/process with different techniques, applications and examples	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive Design & Assembly Drawing	BAUL - 604	Design and drawing of different vehicles under various load conditions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Fuels and Pollution Control	BAUL - 605	Different standards of pollution and their control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Computer Integrated Manufacturing	BAUL- 606	To study smart machine which controlled by computer for accuracy and automation	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automotive Maintenance	BAUP- 607	Hands in session for vehicle maintenance, Vehicle service procedure	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Self Study (Internal Assessment)	BAUS - 608	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar & Group Discussion (Internal Assessment)	BAUS - 609	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Optimization Techniques In Mechanical Engineering	560101	To optimizate machine/process with different techniques, applications and examples	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Integrated Manufacturing & Resources Planning	560102	Resource management using different approaches	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Production Engineering- I	560103	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Production & Operation Management	560104	Industrial operations, strategy, time management	2017	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Ergonomics and Work Study	560105	Various techniques of work-study for improving the productivity of an organization.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Project Management	560106	To manage activities with different techniques and stretegy	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

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Reliability Availability and Maintainability	560107	To check performance of different bearings, analysis of behavior and their relation at different vibration conditions.	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
World-Class Manufacturing	560108	Manufacturing aspects, management stretegies and their implementations	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Simulation & Modeling Lab. -I	560109	ability to make familiar with 2D, 3D modelling and simulation software	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Automation & Robotics in Production	560201	Application of computers in various aspects manufacturing to reduce manual processing and linking computers to all the manufacturing machines	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Production Engineering-II	560203	Manufacturing processes and their performance for various materials	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Total Quality Management	560204	The philosophy and core values of Total Quality Management	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Engineering Estimation & Costing	560205	Latest management technologies to make process more economical and effective	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Flexible Manufacturing System	560206	Study of different manufacturing techniques automation and control	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Concurrent Engineering	560207	Study of process using different aspects of engineering	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Logistics & Supply Chain Management	560208	Industrial logistics challeges and their different solutions	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Computer Lab-I	560209	Hands on session for skill developments	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Production Engineering Lab-II	560210	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf

Production Engineering Lab. – I	560110	demonstrate the fundamentals of machining processes and machine tools	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Computer Integrated Manufacturing	MPNL931`	To study smart machine which controlled by computer for accuracy and automation	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Maintenance Management	MPNL932	The Maintenance strategies and overall configuration and Maintenance of Machines , structure and System.	2018	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Seminar	MPNS933	Skill development of self learning through presentation and group discussion	2015	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Dissertation Part – I (Literature review / Problem Formulation/ Synopsis)	MPND934	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf
Dissertation Part-II	MPND941	To develop product/ simulate/ experimentation using engineering knowledge to solve societal/industrial problems.	2010	https://web.mitsgwalior.in/images/Departments/mechanical_engineering/NAAC/1.2.1_new/2017-18.pdf