

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. aided UGC Autonomous NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Department of Computer Science and Engineering

Change in Syllabus and Scheme for B.Tech Computer Science and Engineering (2017-2022)

SEMESTER	2019-2023 BATCH		2020-2024 BATCH		Percentage Change
	COURSE CODE	COURSE NAME	COURSE CODE	COURSE NAME	
I	100201	Engineering Physics	230102	Introduction to Computer Programming	39.44
	100202	Energy, Environment, Ecology & Society	100022	Basic Electrical & Electronics Engineering	
	100203	Basic Computer Engineering	100020	Basic Civil Engineering & Mechanics	
	100204	Basic Mechanical Engineering	100021	Basic Mechanical Engineering	
	100205	Basic Civil Engineering & Mechanics	100015	Energy, Environment, Ecology & Society	
	100206	Language Lab. & Seminars	150111	IT workshop	
II	100101	Engineering Chemistry	100011	Engineering Mathematics –I	
	100102	Engineering Mathematics-I	150211	Data Structures	
	100103	Technical English	150212	Object Oriented Programming & Methodology	
	100104	Basic Electrical & Electronics Engineering	150213	Digital Electronics	
	100105	Engineering Graphics	100016	Technical Language	
	100106	Manufacturing Practices	100017	Language Lab	
III	100001	Mathematics-II	100025	Engineering Mathematics-II	
	150301	Digital Electronics	150311	Computer System Organization	
	150302	Data Structures	150312	Operating System	
	150303	Computer Graphics	150313	Computer Graphics	
	150304	Object Oriented Programming and Methodology	150314	Design & Analysis of Algorithms	
	150305	Hardware Lab	150315	Computer Hardware & Troubleshooting Lab	
	150306	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)#	150316	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	
	150307	Summer Internship Project-I (Institute Level) (Evaluation)	200XXX	Novel Engaging Course	
	100002	Biology for Engineers	150317	Summer Internship Project-I (Institute Level) (Evaluation)	
		1000002	Biology for Engineers		
IV	100003	Engineering Mathematics- III	150411	Computer Networks	
	150401	Design & Analysis of Algorithms	150412	Database Management System	
	150402	Database Management System	150413	Software Engineering	
	150403	Operating System	150414	Theory of Computation	
	150404	Computer System Organization	150415	Programming Lab Python Programming	
	100004	Cyber Security	150416	Discrete Structures	
	150405	Programming Lab	200XXX	Novel Engaging Course	
		1000001	Indian Constitution and Traditional Knowledge		
V	100005	Ethics, Economics, Entrepreneurship & Management	150511	Data Science	
	150501	Discrete Structures	150512	Networking with TCP/IP	
	150502	Software Engineering	150513	Information Security	
	150503	Theory of Computation	150514	Compiler Design	
	150504	Microprocessor & Interfacing	150515	Artificial Intelligence	
	150505	Minor Project-I	150516	Minor Project-I	
	150506	Summer Internship Project-II (Evaluation)	150517	Summer Internship Project-II (Evaluation)	
	150507	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	200XXX	Novel Engaging Course (Informal Learning)	
	100006	Indian Constitution & Traditional Knowledge (Audit Course)	150518	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	
			1000005	Project Management & Financing	
		1000006	Disaster Management		

VI	150601	Compiler Design	150611	Cloud Computing & Virtualization
	150602	Computer Networks	150612	Digital Image Processing
	DE	150611 Network & Web Security 150612 Image Processing 150613 Mobile Computing	150613	Machine Learning
	DE	150656 Introduction to Internet of Things 150657 Object Oriented System Development Using UML, Java And Patterns 150654 An Introduction to Artificial Intelligence	DE	150658 Ethical Hacking 150651 Data Analytics using Python 150659 Blockchain and its Application
	OC	900106 Data Structures 900107 Python Programming	OC	910100 Data Structures 910101 Python Programming
	100007	Disaster Management	150614	Minor Project-II
	150603	Minor Project-II	200XXX	Novel Engaging Course (Informal Learning)
			1000007	Intellectual Property Rights (IPR)
VII	DE	150711 Networking with TCP/IP 150712 Data Mining & Warehousing 150713 Distributed Systems	DE	150711 Networking with TCP/IP 150712 Data Mining & Warehousing 150713 Distributed Systems
	DE	150756 Software Testing 150757 Big Data Computing 150758 Introduction to Machine Learning	DE	150756 Software Testing 150757 Big Data Computing 150758 Introduction to Machine Learning
	OC	900208 Soft Computing 900209 Network Security	OC	900208 Soft Computing 900209 Network Security
	OC	900220 R Programming 900222 Computer Networks	OC	900220 R Programming 900222 Computer Networks
	100008	Intellectual Property Rights (IPR)	100008	Intellectual Property Rights (IPR)
	150701	Departmental Lab	150701	Departmental Lab
	150702	Summer Internship Project-III (04 weeks) (Evaluation)	150702	Summer Internship Project-III (04 weeks) (Evaluation)
	150703	Creative Problem Solving (Evaluation)	150703	Creative Problem Solving (Evaluation)
VIII	DE	150859 Information Security -5- Secure Systems Engineering 150852 Privacy and Security in Online Social Media 150856 Blockchain and its Applications	DE	150859 Information Security -5- Secure Systems Engineering 150852 Privacy and Security in Online Social Media 150856 Blockchain and its Applications
	OC	Data Science for Engineers Introduction to Internet of Things An Introduction to Artificial Intelligence	OC	Data Science for Engineers Introduction to Internet of Things An Introduction to Artificial Intelligence
	150801	Internship/Project	150801	Internship/Project
	150802	Professional Development	150802	Professional Development