

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA



Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

DEPARTMENT OF ELECTRONICS ENGINEERING (EC)

COURSE STRUCTURE

I SEMESTER	II SEMESTER	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER	
Measurement and Sensors	Communication Network	Probability and Random Process	Linear Control Theory	Digital Signal Processing	Mobile Communication and 5G Networks	Departmental Elective (DE-3)	Departmental Elective* (DE-5)	
Computer Programming	Electronic Circuits	Data Structures	Microprocessor and Interfacing	Embedded System	Artificial Intelligence & Machine Learning	Departmental Elective* (DE-4)	Open Category Course* (OC-3)	
Electronic Devices	Signals and Systems	Analog Communication	Digital Communication	Data Science	Departmental Elective* (DE-2)	Open Category Course (OC-2)	Industry Internship/ Research Internship/ Innovation & Start-up	
Network Theory	Digital Circuits and Systems	Analog Integrated Circuit	Electromagnetic Fields	Departmental Elective* (DE-1)	Open Category Course (OC-1)	Specialization Course (SPC-3)	Professional Development	
Basic Electrical & Electronics Engineering	Linear Algebra and Differential Equation	Data Communica tion	VLSI Design	Specialization Course (SPC-1)	Specialization Course (SPC-2)	Creative Problem Solving	Honours or Minor Degree (Optional)	
Computer Programming Lab	Digital Logic Design Lab	Analog Communication Lab	Microprocessor and Interfacing Lab	Digital Signal Processing Lab	Embedded System Lab	Honours or Minor Degree (Optional)		
Electrical & Electronics Engineering Lab	Problem Solving through Python Programming	Analog Integrated Circuit Lab	Digital Communication Lab	Data Science Lab	Artificial Intelligence & Machine Learning Lab		_	
Engineering Physics/Engineering	Engineering Physics/Engineering Chemistry Lab	Self- learning/Presentation (SWAYAM/NPTEL/	VLSI Design Lab	Cornerstone Project	Capstone Project		tmental Core	
Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Supply Chain Management	Disaster Management	Basic	Science Courses	
Micro Project-I	Micro Project-II	Macro Project-I	Macro Project-II	Honours or Minor Degree (Optional)	Honours or Minor Degree (Optional)		Engineering Science Courses	
Micio Fioject-i	Where I Toject-II	Macro Project-1	Macio Fioject-II	.g (• F		Manda	tory Audit Courses	
Universal Human Values & Professional Ethics	Sustainability &	Cyber Security	Project Management, Economics & Financing			1	ent Elective Courses	
(UHVPE)	Environmental Science						Open Course	
	Soft Skill Internship		Skill Internship Project			Depar	tment Lab Course	
			Honours or Minor Degree (Optional)			Proje	et Based Learning	



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Departmental Elective Courses							
EC		ET					
Electromagnetic Waves and Guided and Wireless Me	dia	Electromagnetic Waves and Guided and Wireless Media					
Fuzzy Sets, Logic System and & Applications		Principles of Modern CDMA/MIMO/OFDM Wireless Communication					
Digital IC Design		Fuzzy Sets. Logic System and & Applications					
Introduction to Information Theory		Introduction to Information Theory					
Introduction to Internet of Things		Introduction to Internet of Things					
Signal Processing Techniques and its Applications		Photonics Integrated Circuit					
Robotics and Control		Robotics and Control					
Satellite and RADAR Communication		Satellite and RADAR Communication					
Antenna and Wave Propagation		Discrete Control System					
Fundamental of Wireless Communication		Optimization Theory and Algorithms Fiber Optic Communication Technology					
Fiber Optic Communication Technology		Pattern Recognition and Applications					
Pattern Recognition and Applications		Spread Spectrum Communications and Jamming					
Spread Spectrum Communications and Jamming		Computer vision and image processing- Fundamentals and Applications					
Computer vision and image processing- Fundamental	s and Applications	Introduction: Wireless Adhoc and Sensor Network Part-I					
Cloud Computing	Onar	n Category Courses	e and bonsor rectroix rate r				
Consumer Electronics	<u> Oper</u>	Consumer Electronics					
Intelligent Control		Intelligent Control					
Mobile Communication		Mobile Communication					
MEMS and Mechatronics		Communication Theory					
Healthcare Engineering		MEMS and Mechatronics					
Communication Theory		Healthcare Engineering					
Linear Dynamics System		Linear Dynamics System					
Sensors and Actuators		Sensors and Actuators					
Optical Fiber Sensors		Optical Fiber Sensors					
Specialization Courses Tracks							
Specialization in Signal	Specialization in Embedde	ed System	Specialization in VLSI Design				
Signal Processing for Communication	Embedded System Programming		Mixed Analog VLSI Design				
Statistical Signal Processing	Embedded System Design using ARM		Semiconductor IC Technology				
Mathematical methods in Signal Processing	System Design using Embedded Processors		EDA Tools for IC Design				
Wavelet Transform for Signal and Image Processing Embedded OS and RTOS			Design for Testability				