

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 (ET)

COURSE STRUCTURE

I SEMESTER	II SEMESTER	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEM	ESTER	VIII SEMESTER
Measurement and Sensors	Communication Network	Probability and Random Process	Linear Control Theory	Digital Signal Processing	Mobile Communication and 5G Networks	Departmental		Departmental Elective* (DE-5)
Computer Programming	Electronic Circuits	Data Structures	Microprocessor and Interfacing	Embedded System	Artificial Intelligence & Machine Learning	Departmental (DE-4		Open Category Course* (OC-3)
Electronic Devices	Signals and Systems	Analog Communication	Digital Communication	Data Science	Departmental Elective* (DE-2)	Open Categor (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)	Specializatio (SPC-		Professional Development
Basic Electrical & Electronics Engineering	Linear Algebra and Differential Equation	Data Communication	VLSI Design	Specialization Course (SPC-1)	Specialization Course (SPC-2)	Creative Proble	em 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 Degree (or Minor 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 Chemistry Lab	Engineering Physics/Engineering Chemistry Lab	Self-learning/ Presentation (SWAYAM/NPTEL/ MOOC	VLSI Design Lab	Cornerstone Project	Capstone Project			partmental Core Courses sic Science Courses
Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Supply Chain Management	Disaster Management		Engineering Science Courses	
Micro Project-I	Micro Project-II	Macro Project-I	Macro Project-II	Honours or Minor Degree (Optional)	Honours or Minor Degree (Optional)		Mano	datory Audit Courses
							Departi	ment Elective Courses
Universal Human Values & Professional Ethics (UHVPE)	Sustainability & Environmental Science	Cyber Security	Project Management, Economics & Financing				Dena	Open Course
(333.72)	Soft Skill Internship		Skill Internship Project				1	ect Based Learning
			Honours or Minor					

Degree Optional)



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	Departmental Elective	Courses		
EC		ET		
Electromagnetic Waves and Guided	l and Wireless Media	Electromagnetic Waves and Guided and Wireless Media		
Fuzzy Sets, Logic System and	& Applications	Principles of Modern CDMA/MIMO/OFDM Wireless Communication		
Digital IC Desig	rn en	Fuzzy Sets, Logic System and & Applications		
Introduction to Informat	ion Theory	Introduction to Information Theory		
Introduction to Internet	of Things	Introduction to Internet of Things		
Signal Processing Techniques a	nd its Applications	Photonics Integrated Circuit		
Robotics and Cor	ntrol	Robotics and Control		
Satellite and RADAR Co.	mmunication	Satellite and RADAR Communication		
Antenna and Wave Pro	pagation	Discrete Control System		
Fundamental of Wireless C	ommunication	Optimization Theory and Algorithms		
Fiber Optic Communicatio	n Technology	Fiber Optic Communication Technology		
Pattern Recognition and A	Applications	Pattern Recognition and Applications		
Spread Spectrum Communicat	ions and Jamming	Spread Spectrum Communications and Jamming		
Computer vision and image processing- Fu	and Applications	Computer vision and image processing- Fundamentals and Applications		
Cloud Computi	ng	Introduction: Wireless Adhoc and Sensor Network Part-I		
	Open Category Co	urses		
Consumer Electron	nics	Consumer Electronics		
Intelligent Contr	ol	Intelligent Control		
Mobile Communica	ation	Mobile Communication		
MEMS and Mechati	ronics	Communication Theory		
Healthcare Enginee	ering	MEMS and Mechatronics		
Communication Th	eory	Healthcare Engineering		
Linear Dynamics Sy	ystem	Linear Dynamics System		
Sensors and Actua	tors	Sensors and Actuators		
Optical Fiber Sens	sors	Optical Fiber Sensors		
	Specialization Co	purses		
Specialization in VLSI Design	Specialization in Signal Processing	Specialization in Wireless Communication		
Mixed Analog VLSI Design	Signal Processing for Communication	Smart Antennas		
Semiconductor IC Technology	Statistical Signal Processing	Adhoc Networks		
EDA Tools for IC design Mathematical methods in Signal Processing		Optical Wireless Communication		
Pesign for Testability Wavelet Transform for Signal and Image Proceedings		Next Generation Wireless LAN		