

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	Departi Coui	nental Core ses	
Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Supply Chain Management	Disaster Management		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	
						Mandato	ory Audit Courses	
Universal Human Values & Professional Ethics	Sustainability & Environmental Science	Cyber Security	Project Management, Economics & Financing			Departme	nt Elective Courses	
(UHVPE)						0	pen Course	
	Soft Skill Internship		Skill Internship Project			Department Lab Course		
		Honours or Minor Degree (Optional)			Project	Based Learning		



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

Departmental Elective Courses								
Electromagnetic Waves and Guided and Wireless Media								
Fuzzy Sets, Logic System and & Applications								
Digital IC Design								
Introduction to Information Theory								
Introduction to Internet of Things								
Signal Processing Techniques and its Applications								
Robotics and Control								
Satellite and RADAR Communication								
Antenna and Wave Propagation								
Fundamental of Wireless Communication								
Fiber Optic Communication Technology								
Pattern Recognition and Applications								
Spread Spectrum Communications and Jamming								
Computer vision and image processing- Fundamentals and Applications								
Cloud Computing								
Open Category Courses								
Consumer Electronics		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		Specialization in VLSI Design					
Signal Processing for Communication	Embedded System Programming	ca System	Mixed Analog VLSI Design					
Statistical Signal Processing	Embedded System Design using ARM		Semiconductor IC Technology					
ŭ ŭ	System Design using Embedded Processors							
Mathematical methods in Signal Processing			EDA Tools for IC Design					
Wavelet Transform for Signal and Image Processing	Embedded OS and RTOS		Design for Testability					