

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



Admitted Batch: 2025

Mandatory Audit Courses

Deemed University

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

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN (CSD)

Project Management,

Economics & Financing

Honours or

Minor Degree

(Optional)

COURSE STRUCTURE

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I SEMESTER	II SEMESTER	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER	
Introduction to CSD	Computer Graphics & Animation	Probability and Random Process	Artificial Intelligence & Machine Learning	Compiler Design	Soft Computing Techniques	Departmental Elective (DE-3)	Departmental Elective* (DE-5)	
Computer Programming	Object oriented Programming & Methodology	Data Structures	Design and Analysis of Algorithms	IoT System Design	Network and Information Security	Departmental Elective* (DE-4)	Open Category Course* (OC-3)	
Digital Circuit Design	Computer System and Organization	Software Engineering	Theory of Computation	Data Science	Departmental Elective* (DE-2)	Open Category Course (OC-2)	Industry Internship/ Research Internship/ Innovation & Start-up	
Cyber World and Security Concern	Operating Systems	Web Technologies	Data communication and Networks	Departmental Elective* (DE-1)	Open Category Course (OC-1)	Specialization Course (SPC-3)	Professional Development	
Linear Algebra	Basic Electrical & Electronics Engineering	Database Management System	Design Pattern	Specialization Course (SPC-1)	Specialization Course (SPC-2)	Creative Problem Solving	Honours or Minor Degree (Optional)	
Computer Programming Lab	Computer Graphics & Animation Lab	Data Structures Lab	Artificial Intelligence & Machine Learning Lab	IoT System Design Lab	Network and Information Security Lab	Honours or Minor Degree (Optional)		
Digital Circuit Design Lab	Object oriented Programming & Methodology Lab	Database Management System Lab	Design and Analysis of Algorithms	Data Science Lab	Augmented & Virtual Reality Lab			
Novel Engaging Course	Electrical & Electronics Engineering Lab	Problem Solving through Python Programming	Competitive Programming	Cornerstone Project	Capstone Project	Departmental Core Courses Engineering Science		
Language Lab	Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Supply Chain Management	Disaster Management			
Micro Project-I	Micro Project-II	Macro Project-I	Macro Project-II	Honours or Minor Degree	Honours or Minor Degree (Optional)		Basic Science Courses	

Note:		

Sustainability &

Environmental Science

Universal Human Values

& Professional Ethics

(UHVPE)

Skill Internship

Program

1. Mandatory Workshops in each semester at Department Level (Duration: Two Days)

Cyber Security

Skill Internship

Program



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Departmental Elective Courses					
Software Design and Project Management					
Image Processing					
Datamining & Warehousing					
Open Category Courses					
Computer Graphics					
Software Engineering					
Database Management System					
Computer Networks					
Specialization Courses Tracks					
Specialization in AI and ML	Specialization in System Design				
Natural Language Processing	Microprocessor & Interfacing				
Deep Learning	Advance Computer Architecture				
Machine Vision	VLSI Design				
Mobile Robotics	Embedded system				