



Post Graduates Schema (For batch 2025 onwards)



**M. Tech. (Computer Science and Engineering)
M. Tech. (Information and Cyber Security)
(Department of Computer Science and Engineering)**

**M. Tech. (Information Technology)
M. Tech. (Wireless Networks and Computing)
(Department of Information Technology)**

**M. Tech. (IC Design and Technology)
M. Tech. (Autonomous Systems and Machine Intelligence)
(Department of Electrical and Electronics Engineering)**

**M.S. (Artificial Intelligence and Data Science)
(Department of Engineering Science)**

**Master of Business Administration
(Department of Management Studies)**

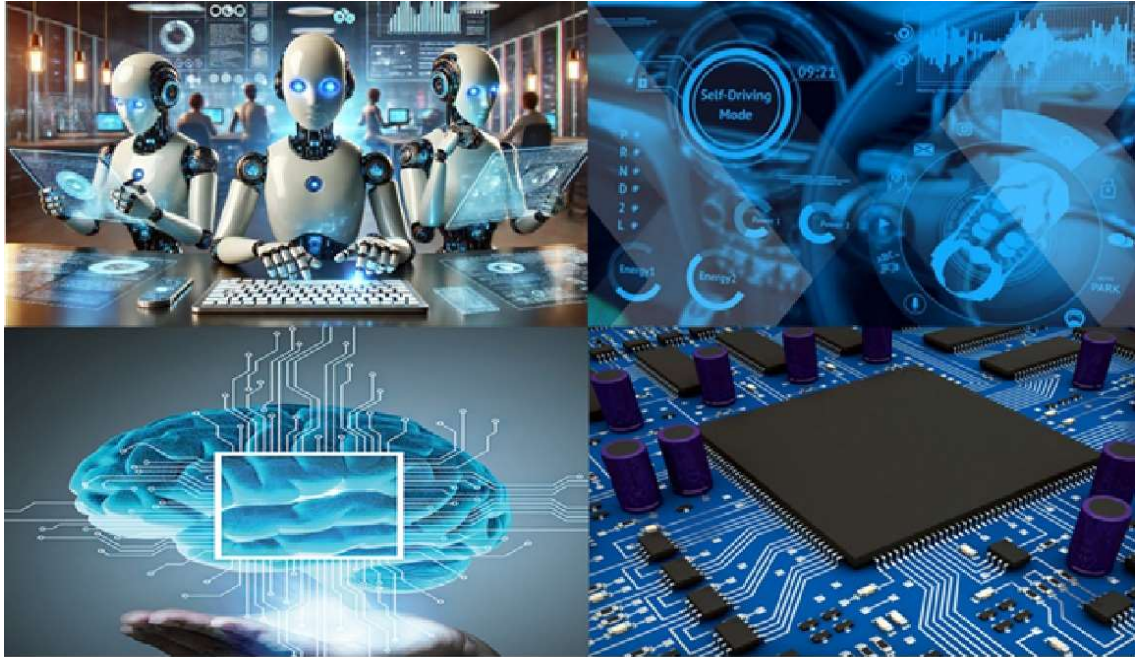
Dual Degree (M.Tech. and PhD)

**ATAL BIHARI VAJPAYEE-
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT,
GWALIOR (MADHYA PRADESH)
(AN INSTITUTE OF NATIONAL IMPORTANCE, MINISTRY OF EDUCATION, GOVT. OF INDIA)**

Schema

M. Tech.

Autonomous Systems and Machine Intelligence (ASMI)



Electrical and Electronics Engineering Department (EEE)



ABV-Indian Institute of Information
Technology & Management, Gwalior

SCHEMA

Name of the program: M. Tech. (Autonomous Systems and Machine Intelligence)

(Credits: 75)

Name of the Department: Electrical and Electronics Engineering

SEMESTER-I				
S. No.	Subject Code	Title of the course	L-T-P	Credits
1.	EE-603	Machine Learning Techniques	3-0-2	4
2.	EE-612	Sensors and Actuators	3-0-2	4
3.	EE-613	Next-Generation Communication Systems	3-0-0	3
4.	EE-614	Human-Machine Interaction	3-0-0	3
5.	EE-XXX	Elective-1	3-0-0	3
6.	EE-XXX	Elective-2	3-0-0	3
			Total credits	20

SEMESTER-II				
S. No.	Subject code	Title of the course	L-T-P	Credits
1.	EE-615	Autonomous Systems	3-0-0	3
2.	EE-616	Artificial Intelligence	3-0-0	3
3.	EE-617	Advanced Embedded Systems	3-0-2	4
4.	EE-609	Engineering Research Methodology	2-1-0	3
5.	EE-XXX	Elective-3	3-0-0	3
6.	EE-XXX	Elective-4/MOOC	3-0-0	3
			Total credits	19

EXIT AFTER YEAR-1: Post Graduate Diploma in Autonomous Systems and Machine Intelligence

SEMESTER-III				
S. No.	Subject code	Title of the course	L-T-P	Credits
1	EE-XXX	Elective-5/MOOC	3-0-0	3
2	EE-698	M. Tech Dissertation-I	0-0-30	15
			Total credits	18

SEMESTER-IV				
S. No.	Subject Code	Title of the course	L-T-P	Credits
1	EE-699	M. Tech Dissertation-II	0-0-36	18
			Total credits	18

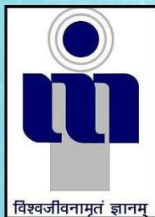
SEMESTER-I	SEMESTER-II	SEMESTER-III	SEMESTER-IV	TOTAL CREDITS
20	19	18	18	75

Electives Courses

S.N.	Code	List of Electives
1	EE-065	High-Performance Computing Systems
2	EE-067	Sensors for Autonomous System
3	EE-073	Data Analytics
4	EE-075	Reinforcement Learning
5	EE-078	Quantum Computing
6	EE-080	Deep Learning for Autonomous Systems
7	EE-082	Advanced Control System
8	EE-069	Digital Image Computation
9	EE-070	Audio Signal Processing
10	EE-071	Advanced Digital Signal Processing
11	EE-072	Biomedical Signal Processing
12	EE-074	Computer Vision
13	EE-076	Internet of Bio-Nano Things
14	EE-079	Cyber Security
15	EE-081	Optimization Techniques
16	EE-083	Internet of Things
17	EE-085	Software Defined Radio
18	EE-086	Quantum Communication
19	EE-087	5G and 6G standards
20	EE-088	Smart Antennas
21	EE-089	Advanced Optical Communication
22	EE-092	Data Communication Protocol
23	EE-051	Device and Interconnect Modelling
24	EE-052	VLSI Signal Processing
25	EE-053	Low Power VLSI
26	EE-054	Microcontroller and Embedded Systems
27	EE-055	Memory Devices and Circuits

28	EE-056	VLSI Architecture
29	EE-057	Hardware Security
30	EE-058	FPGA-Based System Design
31	EE-059	Quantum Electronics
32	EE-060	RF Circuit Design
33	EE-061	Mixed Signal SoC Design
34	EE-062	AI-Accelerator Design
35	EE-063	System-on-Chip Design
36	EE-064	Embedded Software
37	EE-066	Special Topics in IC Design and Technology
38	EE-068	Network on Chip
39	EE-602	System Design using HDL
40	EE-608	Design Verification and Testing
41	EE-610	CAD for VLSI
42	EE-077	Advanced Concepts in Electronics Engineering

*Department electives may be added or deleted with the approval of a departmental recommendation by the DoAA.



Atal Bihari Vajpayee-

Indian Institute Of Information Technology And Management, Gwalior

(An Institute Of National Importance, Ministry of Education, Govt. Of India)

National Highway 92, Gwalior-474015 (India)

Phone: 91-751-2449720, Fax: 91-751-2460313

Website: www.iiitm.ac.in