

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 VAJPAYEEINDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT,
GWALIOR (MADHYA PRADESH)

(AN INSTITUTE OF NATIONAL IMPORTANCE, MINISTRY OF EDUCATION, GOVT. OF INDIA)

Schema

M. Tech.
(Information and Cyber Security)



Department of Computer Science and Engineering



ABV-Indian Institute of Information Technology & Management, Gwalior

SCHEMA

Name of the program: M. Tech. (Information and Cyber Security)

(Credits: 75)

Name of the Department: Computer Science and Engineering

SEMESTER-I				
S. No.	Subject Code	Title of the course	L-T-P	Credits
1.	CS-601	Cloud Computing	3-0-0	3
2.	CS-602	Fundamentals of Cryptography	3-0-0	3
3.	CS-603	Machine Learning Techniques	3-0-2	4
4.	CS-604	Advanced Data Structures and Algorithms	3-0-2	4
5.	CS-605	Cyber Laws and Information Crime	3-0-0	3
6.	CS-6XX	Elective-I	3-0-0	3
			Total credits	20

	SEMESTER-II			
S. No.	Subject code	Title of the course	L-T-P	Credits
1.	CS-612	Advanced Computer Networks and Security	3-0-0	3
2.	CS-613	Cyber Forensics: Tools and Techniques	3-0-2	4
3.	CS-614	Information Privacy and Security	3-0-0	3
4.	CS-615	Engineering Research Methodology	2-1-0	3
5.	CS-6XX	Elective-II	3-0-0	3
6.	CS-6XX	Elective-III/MOOC	3-0-0	3
			Total credits	19

EXIT AFTER YEAR-1: Post Graduate Diploma in Information and Cyber Security

	SEMESTER-III				
S. No.	Subject code	Title of the course	L-T-P	Credits	
1	CS-6XX	Elective-IV/MOOC	3-0-0	3	
2	CS-698	M. Tech Dissertation Part - I	0-0-30	15	
			Total credits	18	

SEMESTER-IV				
S. No.	Subject Code	Title of the course	L-T-P	Credits
1	CS-699	M. Tech Dissertation Part – 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

Electives Category: Information and Cyber Security				
S.No.	Subject Codes	Title of Courses	L-T-P	
1.	CS-621	Wireless & Mobile Security	3-0-0	
2.	CS-622	Intrusion Detection and Prevention	3-0-0	
3.	CS-623	Web application and Cloud Security	3-0-0	
4.	CS-624	Malware Analysis	3-0-0	
5.	CS-625	Authentication and Access Control	3-0-0	
6.	CS-626	Digital Watermarking and Steganalysis	3-0-0	
7.	CS-627	IoT Protocols and Security	3-0-0	
8.	CS-628	Data Privacy in Social Networks	3-0-0	
9.	CS-629	Blockchain Technology	3-0-0	
10.	CS-630	Software System Design	3-0-0	
11.	CS-631	Modern Cryptography	3-0-0	
12.	CS-632	Database Security	3-0-0	
13.	CS-633	Hardware Security	3-0-0	
14.	CS-634	Operating Systems Security	3-0-0	
15.	CS-635	Fault Tolerant System	3-0-0	
16.	CS-636	Quantum Cryptography	3-0-0	
17.	CS-637	Big Data and Cyber fraud analysis	3-0-0	
18.	CS-638	Secure System Engineering	3-0-0	
19.	CS-639	Formal Verification of Security Protocols	3-0-0	
20.	CS-640	Digital Forensics	3-0-0	
21.	CS-641	Natural Language Processing	3-0-0	
22.	CS-642	Information Retrieval	3-0-0	
23.	CS-643	Recommender Systems	3-0-0	
24.	CS-644	Reinforcement Learning	3-0-0	
25.	CS-645	Fair, Accountable, Transparent AI	3-0-0	
26.	CS-646	Machine Learning System Optimization	3-0-0	
27.	CS-647	Pattern Recognition		
28.	CS-648	Deep Learning Techniques	3-0-0	
29.	CS-649	Modelling and Simulation	3-0-0	

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

