

Maulana Azad National Institute of Technology, Bhopal
Department of Computer Science & Engineering

Schema for M.Tech (Information Security) I Semester to IV Semester

Semester I

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
IS 511	Mathematical Foundation of Information Security	3	-	-	3
IS 512	Computer & Network Security	3	-	-	3
IS 513	Cybercrime & Information Warfare	3	-	-	3
IS 531-535	Elective - I	3	-	-	3
IS 541-544	Elective - II	3	-	-	3
IS 571-575	Open Elective - I	3	-	-	3
IS 514	Network & Cyber Security Lab	-	-	2	1
IS 515	Electives Lab - I	-	-	2	1
IS 516	Seminar - I	-	-	2	2
Total credit					22

Departmental Electives

Course number	Elective I	Course number	Elective II
IS 531	Data Mining	IS 541	Advance Data Structures
IS 532	Operating System & Design	IS 542	Information Theory & Coding
IS 533	Web Search & Information Retrieval	IS 543	Biometric
IS 534	Digital Image Processing	IS 544	Privacy: Data & User Protection
IS 535	Internet of Things (IoT)		

Open Elective

Course number	Open Elective I
IS 571	Distributed Computing
IS 572	Object Oriented Design & Modeling
IS 573	Optimization Techniques
IS 574	Cloud Computing
IS 575	Support Vector Machine

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Semester II

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
IS 521	Cryptography	3	-	-	3
IS 522	Database Security & Access Control	3	-	-	3
IS 523	Digital Forensics	3	-	-	3
IS 551-555	Elective - III	3	-	-	3
IS 561-565	Elective - IV	3	-	-	3
IS 581-585	Open Elective - II	3	-	-	3
IS 524	Database Security & Digital Forensics Lab	-	-	2	1
IS 525	Electives Lab - II	-	-	2	1
IS 526	Seminar - II	-	-	2	2
Total credit					22

Departmental Electives

Course number	Elective III	Course number	Elective IV
IS 551	Cluster & Grid Computing	IS 561	Steganography & Digital Watermarking
IS 552	Natural Language Processing	IS 562	Security Threats & Modelling
IS 553	Secure Software Engineering	IS 563	Malware Analysis & Reverse Engineering
IS 554	Machine Learning	IS 564	Parallel Algorithms
IS 555	Professional Communication	IS 565	Soft Computing

Open Elective

Course number	Open Elective II
IS 581	Image Analysis
IS 582	Statistical Methods
IS 583	Big Data Analytics
IS 584	Technical Foundation for e-Commerce
IS 585	Integer Programming

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Semester III

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
IS - 611	Dissertation Phase -I	-	-	23	23
Total Credit					23

Semester IV

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
IS - 621	Dissertation Phase –II	-	-	23	23
Total Credit					23