

Institute of Engineering & Technology

Master of Engineering (Fulltime)

ME – Information Technology with Specialization in Information Security

Duration and seats: 2 Yrs. (Full Time) – 18 seats

Eligibility: A candidate seeking admission to the program should have passed with 60% (or Equivalent) in BE/B.Tech. (or Equivalent) in an allied branch of engineering from recognized Institute/ University and Valid GATE Score in the relevant/allied branch of Engineering / Technology.

AGE LIMIT: As per the directives of Government of Madhya Pradesh, there is no upper age limit for admission in the programme.

Fees Structure:

Semester	Academic Fee	Development & Maintenance Fee	Students' Services Fee		Examination Fee	Total (Rs.)	
			Boys	Girls		Boys	Girls
First	15000	31000	3300	3111	2500	51800	51611
Second	15000	-	2911	2722	2500	20411	20222
Third	15000	31000	3300	3111	2500	51800	51611
Fourth	15000	-	2911	2722	2500	20411	20222

- Caution money (Refundable) of Rs. 4000/- will be charged additionally in the first semester.
- Alumni Fee of Rs. 500/- will be charged extra in the first semester.
- If a student repeats a paper(s) in a semester, an additional fee of Rs.500/- per paper shall be payable.
- For NRI/ FN/ PIO Candidates, a fee of US\$ 3500 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$ 500 once at the time of admission.
- Hostel Fee and Central Library Fee will be extra.

Objectives

The objective of the course is to provide students with an overall understanding of information security and to highlight the importance of network and information security in software systems. The course covers wide aspects of information security. The core subjects like advance computer systems, Advance computer networks and data security make strong foundation. Subjects like security in e-commerce, risk assessment and computer forensics, Information security management etc. are the specialized areas.

OUTCOMES

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The course provides conceptual frameworks, methods, technologies and hands-on experience necessary to become IT security specialist. Students are exposed to specialised knowledge and skills in information security. There is acute shortage of Information security engineers and architects. Students acquire adequate knowledge and skills to act as IT security architect or specialist after completion of the course on M.E.(Information Technology) with specialization on Information security.

Curriculum & Syllabus

S. No.	Category	No. of Credits			
		SEM I	SEM II	SEM III	SEM IV
1.	Course Compulsory	15	15	-	-
2.	Generic Elective	4	4	-	-
3.	Programme Elective	5	5	-	-
4.	Skill development	2	2	-	-
5.	Seminar/ Workshop	2	2	-	-
6.	Dissertation Phase	-	-	12	12
Actual Credits per Semester		28	28	12	12
Total actual Programme Credits					80
7.	Virtual Credited Comprehensive Viva	4	4	4	4
Total Credits per Semester		32	32	16	16
Total Programme Credits					96

SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	Sub Type
1.	ISR1C1	Advanced Algorithms	3-1-1	PC1
2.	ISR1C2	Secure Computing Techniques	3-1-1	PC2
3.	ISR1C3	Advanced Computer Networks	3-1-1	PC3
4.	ISR1Gx	Generic Elective I	3-1-0	GE1
5.	ISR1Ex	Elective I	3-1-1	PE1
6.	ASR1S1	Soft Skills -1	2-0-0	
7.	ISR1W1	Seminar/ Workshop	0-2-0	
8.	ISR1V1	Comprehensive Viva I	0-0-4	
Total Credit for SEM I			28 actual + 4 Virtual credits	

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		List of Generic Elective I	L-T-P	
1.	ISR1G1	Advanced Data Base Management Systems	3-1-0	
2.	ISR1G2	Complexity of Security Algorithms	3-1-0	
3.	ISR1G3	Agent Technology	3-1-0	
		List of Elective I	L-T-P	
1.	ISR1E1	Data Security	3-1-1	
2.	ISR1E2	Information Theory and Coding	3-1-1	
3.	ISR1E3	Data Compression and Stagnography	3-1-1	
SEM II			L-T-P	
1.	ISR2C1	Information Security Management	3-1-1	PC4
2.	ISR2C2	Security Assessment and Verification	3-1-1	PC5
3.	ISR2C3	Secure Wireless Networks	3-1-1	PC6
4.	ISR2Gx	Generic Elective II	3-1-0	GE2
5.	ISR2Ex	Elective II	3-1-1	PE2
6.	ASR2S1	Soft Skills -2	2-0-0	
7.	ISR2W1	Seminar/ Workshop	0-2-0	
8.	ISR2V2	Comprehensive Viva II	0-0-4	
Total Credit for SEM II			28 actual + 4 Virtual credits	
		List of Generic Elective II	L-T-P	
1.	ISR2G1	Cloud Computing	3-1-0	
2.	ISR2G2	Secure Software Engineering	3-1-0	
3.	ISR2G3	Cyber Crime and Information Warfare	3-1-0	
		List of Elective II	L-T-P	
1.	ISR2E1	Biometric Systems & Security	3-1-1	
2.	ISR2E2	Applied Cryptography	3-1-1	
3.	ISR2E3	Trust management in E- Commerce	3-1-1	
SEM III			L-T-P	
1.	ISR3D1	Dissertation Phase I	0-0-12	
2.	ISR3V3	Comprehensive Viva III	0-0-4	
Total Credit for SEM III			12 actual + 4 Virtual credits	
SEM IV			L-T-P	
1.	ISR4D2	Dissertation Phase II	0-0-12	
2.	ISR4V4	Comprehensive Viva IV	0-0-4	
Total Credit for SEM IV			12 actual + 4 Virtual credits	
Total Credit			80 actual + 16 Virtual credits	