DEVI AHILYA VISHWAVIDYALAYA, INDORE

Institute of Engineering & Technology

Master of Engineering (Part Time)

ME – Information Technology- Specialization in Information Security

Duration and seats: **3** Yrs. (Part Time) – 10 seats

Eligibility: A candidate seeking admission to the program should have passed with 55% (or Equivalent) in BE/BTech (or Equivalent) in an allied branch of engineering from recognized Institute/ University & must have Two Years Post Qualification Experience in the relevant field.

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	11000	17000	3300	3111	2500	33800	33611
Second	11000	-	2911	2722	2500	16411	16222
Third	11000	17000	3300	3111	2500	33800	33611
Fourth	11000	-	2911	2722	2500	16411	16222
Fifth	11000	17000	3300	3111	2500	33800	33611
Sixth	11000	-	2911	2722	2500	16411	16222

- 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

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	SEMV	SEM VI
1.	Course Compulsory	10	5	10	5		
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		**14**	**14**	**14**	**14**	**12**	**12**
Total actual Programme Credits per semester							**80**
7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
Total Credits per semester		**16**	**16**	**16**	**16**	**16**	**16**

Total Programme Credits per semester	96

SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	SubType
1.	ISP1C1	Advanced Algorithms	3-1-1	PC1
2.	ISP1C2	Secure Computing Techniques	3-1-1	PC2
3.	ISP1Gx	Generic Elective I	3-1-0	GE1
4.	ISP1V1	Comprehensive Viva I	0-0-2	
Total Credit for SEM I			**14 actual + 2 Virtual credits**	
SEM II		L-T-P		
1.	ISP2C1	Advanced Computer Networks	3-1-1	PC3
2.	ISP2EX	Elective I	3-1-1	PE1
3.	ISP2W1	Seminar/ Res. Tool	0-2-0	
4	ASP2S1	Soft Skills -1	2-0-0	
5.	ISP2V2	Comprehensive Viva II	0-0-2	
Total Credit for SEM II			**14 actual + 2 Virtual credits**	
		List of Generic Elective I	**L-T-P**	
1.	ISP1G1	Advanced Data Base Management Systems	3-1-0	
2.	ISP1G2	Complexity of Security Algorithms	3-1-0	
3.	ISP1G3	Agent Technology	3-1-0	
		List of Elective I	**L-T-P**	
1.	ISP2E1	Data Security	3-1-1	
2.	ISP2E2	Information Theory andCoding	3-1-1	
3.	ISP2E3	Data Compression and Stagnography	3-1-1	
SEM III		L-T-P		
1.	ISP3C1	Information Security Management	3-1-1	PC4
2.	ISP3C2	Digital Forensics and Investigations	3-1-1	PC5
3.	ISP3Gx	Generic Elective II	3-1-0	GE2
4.	ISP3V3	Comprehensive Viva III	0-0-2	
Total Credit for SEM III			**14 actual + 2 Virtual credits**	
SEM IV		L-T-P		
1.	ISP4C1	Secure Wireless Networks	3-1-1	PC6
2.	ISP4Ex	Elective II	3-1-1	PE2
3.	ISP4W2	Seminar/ Res. Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	ISP4V4	Comprehensive Viva IV	0-0-2	
Total Credit for SEM IV			**14 actual + 2 Virtual credits**	
		List of Generic Elective II	**L-T-P**	
1.	ISP4GE1	Cloud Computing	3-1-0	
2.	ISP4GE2	Secure Software Engineering	3-1-0	
3.	ISP4GE3	Cyber Crime and Information Warfare	3-1-0	
		List of Elective II	**L-T-P**	
1.	ISP4E1	Biometric Systems & Security	3-1-1	
2.	ISP4E2	Applied Cryptography	3-1-1	
3.	ISP4E3	Trust management in E- Commerce	3-1-1	

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SEM V L-T-P				
1.	ISP5D1	Dissertation Phase I	0-0-12	
2.	ISP5V5	Comprehensive Viva V	0-0-4	
Total Credit for SEM V			**12 actual + 4 Virtual credits**	
SEM VI			**L-T-P**	
1.	ISP6D2	Dissertation Phase II	0-0-12	
2.	ISP6V6	Comprehensive Viva IV	0-0-4	
Total Credit for SEM VI			**12 actual + 4 Virtual credits**	
		Total Credit	**80 actual + 16 Virtual credits**	