

Institute of Engineering & Technology

Master of Engineering (Part Time)

ME - Computer Engineering Specialization in Software Engineering

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: Students learn the concepts of software engineering and focus on principles of systems analysis, design, implementation and testing. The course focuses on the various aspects of cost-effective software development of high-quality software. The course also has lab assignments, exposure to case studies and projects to improve their practical skills. Subject such as, Advanced

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Computer Architecture, Computer Networks and Software Constructions are based on the modern and recent development in the internal workings of the computer systems, designing and implementing a computer network and develop programming and coding skills. The subjects like object oriented analysis, object oriented design and software construction help the students to analyse, design and develop a software system. These skills are necessary to plan and conduct complex systems development projects to meet customer needs and integrate software solutions into an evolving business environment.

OUTCOMES

The development of professional skills, and ethics in students. The course provides conceptual frameworks, methods, technologies and hands-on experience necessary for software development. All this forms a basis for a career in the software industry. Students also acquire specialised knowledge of specific topics, particularly in the area of software development and database systems, and networking. After completion of the course on M.E (Software Engineering) a students should be able to solve specific problems alone or in teams, manage a project from beginning to end, work independently as well as in teams, define, formulate and analyse a problem.

Curriculum & Syllabus

S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	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/ Research Tool	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
Actual Credits per semester		14	14	14	14	12	12

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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

Curriculum & Syllabus

SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	Sub Type
1.	SEP1C1	Advanced Algorithms	3-1-1	PC1
2.	SEP1C2	Object Oriented Analysis & Design	3-1-1	PC2
3.	SEP1Gx	Generic Elective I	3-1-0	GE1
4.	SEP1V1	Comprehensive Viva I	0-0-2	
Total Credit for SEM I			14 actual + 2 Virtual credits	
SEM IIL-T-P				
1.	SEP2C3	Software Construction	3-1-1	PC3
2.	SEP2Ex	Elective I	3-1-1	PE1
3.	SEP2W1	Seminar/ Workshop/Research Tool	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	SEP2V2	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.	SEP1G1	Soft Computing	3-1-0	
2.	SEP1G2	Distributed Operating System	3-1-0	
3.	SEP1G3	Advance Computer Architecture	3-1-0	
List of Elective I			L-T-P	
1.	SEP2E1	Database Engineering	3-1-1	
2.	SEP2E2	Big Data Analytics	3-1-1	
3.	SEP2E3	Secure Software Engineering	3-1-1	
SEM IIIL-T-P				
1.	SEP3C1	Software Project Planning and Management	3-1-1	PC4
2.	SEP3C2	Design Pattern	3-1-1	PC5
3.	SEP3Gx	Generic Elective II	3-1-0	GE2
4.	SEP3V3	Comprehensive Viva III	0-0-2	
Total Credit for SEM III			14 actual + 2 Virtual credits	
SEM IVL-T-P				
1.	SEP4C3	Software Testing and Quality Assurance	3-1-1	PC6

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2.	SEP4Ex	Elective II	3-1-1	PE2
3.	SEP4W2	Seminar/ Res. Tool/Research Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	SEP4V4	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.	SEP3G1	Data Mining & Warehousing	3-1-0	
2.	SEP3G2	Cloud Computing	3-1-0	
3.	SEP3G3	Simulation and Modelling	3-1-0	
		List of Elective II	L-T-P	
1.	SEP4E1	Speech And Language Processing	3-1-1	
2.	SEP4E2	Aspect Oriented Software Engineering	3-1-1	
3.	SEP4E3	Machine Learning	3-1-1	

SEM VL-T-P				
1.	SEP5D1	Dissertation Phase I	0-0-12	
2.	SEP5V5	Comprehensive Viva V	0-0-4	
Total Credit for SEM V			12 actual + 4 Virtual credits	
SEM VI			L-T-P	
1.	SEP6D2	Dissertation Phase II	0-0-12	
2.	SEP6V6	Comprehensive Viva IV	0-0-4	
Total Credit for SEM VI			12 actual + 4 Virtual credits	
Total Credit			80 actual + 16 Virtual credits	