

Institute of Engineering & Technology

Master of Engineering (Fulltime)

ME – Electronics with Specialization in Digital Communication

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 B.E./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:

1. Indigenous technology development and skill up-gradation in the area of electronics design and communication technology.
2. Human resource development capable of solving complex problems in the area of Electronics and communication system.
3. To imbibe virtues of experimentation, product development, and devising innovative strategies in the area Communication Technology.
4. Enrichment of knowledge and expertise

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OUTCOMES:

1. Generation of specialized manpower capable of providing indigenous solutions to the problems being faced by industrial units of the region and outside.
2. Manpower development with effective communication skills for teaching the graduate students and training manpower.
3. Skilled manpower development for undertaking research and development in the area of Electronics and communication technology.
4. Undertaking training programs for industry; arranging conferences and symposiums for dissemination

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.	DCR1C1	Modern Communication System	3-1-1	PC1
2.	DCR1C2	Embedded System using ARM Microcontroller	3-1-1	PC2
3.	DCR1C3	Advance Computer Networking	3-1-1	PC3
4.	DCR1Gx	Generic Elective I	3-1-0	GE1
5.	DCR1Ex	Elective I	3-1-1	PE1

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6.	ASR1S1	Soft Skills -1	2-0-0	
7.	DCR1W1	Seminar/ Workshop/Research Tool	0-2-0	
8.	DCR1V1	Comprehensive Viva I	0-0-4	
Total Credit for SEM I			28 actual + 4 Virtual credits	
List of Generic Elective I			L-T-P	
1.	DCR1G1	Advance System Design	3-1-0	
2.	DCR1G2	Wireless Sensor Network	3-1-0	
3.	DCR1G3	Advance Digital Signal Processing	3-1-0	
4.	DCR1G4	Information Theory and Coding	3-1-0	
List of Elective I			L-T-P	
1.	DCR1E1	Satellite Communication	3-1-1	
2.	DCR1E2	Object Oriented Programming	3-1-1	
3.	DCR1E3	Nanodevices&Nanosensors	3-1-1	
4.	DCR1E4	Software Engineering	3-1-1	
SEM II				
1.	DCR2C1	Modelling and Simulation	3-1-1	PC4
2.	DCR2C2	Mobile Communication Networks	3-1-1	PC5
3.	DCR2C3	System Design Using Verilog	3-1-1	PC6
4.	DCR2Gx	Generic Elective II	3-1-0	GE2
5.	DCR2Ex	Elective II	3-1-1	PE2
6.	ASR2S2	Soft Skills -2	2-0-0	
7.	DCR2W2	Seminar/ Workshop/ Research Tool	0-2-0	
8.	DCR2V2	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.	DCR2G1	Broadband Access Technology	3-1-0	
2.	DCR2G2	Embedded RTOS	3-1-0	
3.	DCR2G3	Advance Antenna System	3-1-0	
4.	DCR2G4	Industrial Communication	3-1-0	
List of Elective II			L-T-P	
1.	DCR2E1	Analog and Digital CMOS Circuit Design	3-1-1	
2.	DCR2E2	Network Security	3-1-1	
3.	DCR2E3	Mobile Computing	3-1-1	
4.	DCR2E4	Software testing and Quality assurance	3-1-1	

SEM III			L-	
T-P				
1	DCR3D1	Dissertation Phase I	0-0-12	
2	DCR3V3	Comprehensive Viva III	0-0-4	
Total Credit for SEM III			12 actual + 4 Virtual credits	
SEM IV			L-	
T-P				
1	DCR4D2	Dissertation Phase II	0-0-12	
2	DCR4V4	Comprehensive Viva IV	0-0-4	

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Total Credit for SEM IV	12 actual + 4 Virtual credits
Total Credit	80 actual + 16 Virtual credits=96