Institute of Engineering & Technology

Master of Engineering (Part Time)

ME – Electronics-Specialization in Digital Communication

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:

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

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	SEMV	SEM VI
1.	Courses 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**

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Total Programme Credits per semester	96

SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	SubType
		List of Generic Elective II	**L-T-P**	
1.	DCP1C1	Modern Communication System	3-1-1	PC1
2.	DCP1C2	Embedded System using ARM Microcontroller	3-1-1	PC2
3.	DCP1Gx	Generic Elective I	3-1-0	GE1
4.	DCP1V1	Comprehensive Viva I	0-0-2	
Total Credit for SEM I			**14 actual + 2 Virtual credits**	
SEM IIL-T-P				
1.	DCP2C3	Advance Computer Networking	3-1-1	PC3
2.	DCP2Ex	Elective I	3-1-1	PE1
3.	DCP2W1	Seminar/ Workshop/Research Tool	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	DCP2V2	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.	DCP1G1	Advance System Design	3-1-0	
2.	DCP1G2	Wireless Sensor Network	3-1-0	
3.	DCP1G3	Advance Digital Signal Processing	3-1-0	
4.	DCP1G4	Information Theory and Coding	3-1-0	
		List of Elective I	**L-T-P**	
1.	DCP2E1	Satellite Communication	3-1-1	
2.	DCP2E2	Object Oriented Programming	3-1-1	
3.	DCP2E3	Nanodevices&Nanosensors	3-1-1	
4.	DCP2E4	Software Engineering	3-1-1	
SEM IIIL-T-P				
1.	DCP3C1	Modelling and Simulation	3-1-1	PC4
2.	DCP3C2	Mobile Communication Networks	3-1-1	PC5
3.	DCP3Gx	Generic Elective II	3-1-0	GE2
4.	DCP3V3	Comprehensive Viva III	0-0-2	
Total Credit for SEM III			**14 actual + 2 Virtual credits**	
SEM IVL-T-P				
1.	DCP4C3	System Design Using Verilog	3-1-1	PC6
2.	DCP4Ex	Elective II	3-1-1	PE2
3.	DCP4W2	Seminar/ Res. Tool/Research Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	DCP3V4	Comprehensive Viva IV	0-0-2	
Total Credit for SEM IV			**14 actual + 2 Virtual credits**	

1.	DCP3G1	Broadband Access Technology	3-1-0	
2.	DCP3G2	Embedded RTOS	3-1-0	
3.	DCP3G3	Advance Antenna System	3-1-0	
4.	DCP3G4	Industrial Communication	3-1-0	
		List of Elective II	**L-T-P**	
1.	DCP4E1	Analog and Digital CMOS Circuit Design	3-1-1	
2.	DCP4E2	Network Security	3-1-1	
3.	DCP4E3	Mobile Computing	3-1-1	
4.	DCP4E4	Software testing and Quality assurance	3-1-1	

SEM V L-T-P				
1.	DCP5D1	Dissertation Phase I	0-0-12	
2.	DCP5V5	Comprehensive Viva V	0-0-4	
Total Credit for SEM V			**12 actual + 4 Virtual credits**	
SEM VI			**L-T-P**	
1.	DCP6D2	Dissertation Phase II	0-0-12	
2.	DCP6V6	Comprehensive Viva IV	0-0-4	
Total Credit for SEM VI			**12 actual + 4 Virtual credits**	
		Total Credit	**80 actual + 16 Virtual credits**	