

Institute of Engineering & Technology

Master of Engineering (Part Time)

ME – Mechanical Engineering with Specialization in Design & Thermal Engg.)

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 B.E./ B.Tech. (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:

Apply scientific and engineering principles to analyze and design aspects of engineering systems that relate to conduction, convection and radiation heat transfer; use appropriate analytical and computational tools to investigate conduction, convection, radiation heat transfer, Tribology,

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Vibrations, CAD/CAM; are both competent and confident in interpreting results of investigations related to heat transfer and Design Engineering , recognize the broad technological and historical context of where Thermal Engineering & Design Engineering is important.

OUTCOMES:

Ability to apply knowledge of Thermal Engineering & Design Engineering to solve Engineering problems; ability to design, analyze, and interpret data; ability to identify, formulate, and solve related problems; recognition of the importance of Thermal Engineering & Design Engineering historically as well as in contemporary engineering systems.

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	-	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

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SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	SubType
1.	DTP1C1	Tribology	3-1-1	PC1
2.	DTP1C2	Design of Internal Combustion Engine Systems	3-1-1	PC2
3.	DTP1Gx	Generic Elective I	3-1-0	GE1
4.	DTP1V1	Comprehensive Viva I	0-0-2	
Total Credit for SEM I			14 actual + 2 Virtual credits	
SEM IIL-T-P				
1.	DTP2C3	Advanced Machine Design	3-1-1	PC3
2.	DTP2Ex	Elective I	3-1-1	PE1
3.	DTP2W1	Seminar/ Res. Tool/Work Shop-1	0-2-0	
4	ASP2S1	Soft Skills -1	2-0-0	
5.	DTP2V2	Comprehensive Viva II	0-0-2	
Total Credit for SEM II			14 actual + 2 Virtual credits	
List of Generic Elective IIL-T-P				
1.	DTP1G1	Advanced Thermodynamics	3-1-0	
2.	DTP1G2	Non Conventional Energy Systems	3-1-0	
3.	DTP1G3	Management Information System	3-1-0	
4.	DTP1G4	Finite Element Analysis	3-1-0	
List of Elective I L-T-P				
1.	DTP2E1	Advanced Mechanics of Solids	3-1-1	
2.	DTP2E2	Fatigue Creep and Fracture	3-1-1	
3.	DTP2E3	Mechanism and Robot Kinematics	3-1-1	
4.	DTP2E4	Thermal Systems : Simulation and Design	3-1-1	
SEM IIIL-T-P				
1.	DTP3C1	Machinery Fault Diagnosis and Signal Processing	3-1-1	PC4
2.	DTP3C2	Advanced Refrigeration and Air Conditioning	3-1-1	PC5
3.	DTP3Gx	Generic Elective II	3-1-0	GE2
4.	DTP3V3	Comprehensive Viva III	0-0-2	
Total Credit for SEM III			14 actual + 2 Virtual credits	
SEM IVL-T-P				
1.	DTP4C3	Computer Aided Design	3-1-1	PC6
2.	DTP4Ex	Elective II	3-1-1	PE2
3.	DTP4W2	Seminar/ Res. Tool/Work Shop-2	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	DTP4V4	Comprehensive Viva IV	0-0-2	
Total Credit for SEM IV			14 actual + 2 Virtual credits	
List of Generic Elective II				
1.	DTP3G1	Advanced Heat Transfer	3-1-0	
2.	DTP3G2	Rapid Prototyping	3-1-0	
3.	DTP3G3	Cogeneration and Waste Heat Recovery	3-1-0	
4.	DTP3G4	Mechatronics in Manufacturing Systems	3-1-0	

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List of Elective II				
1.	DTP4E1	Machine Vibrations Analysis	3-1-0	
SEM V			L-T-P	
2.	DTP4E2	Experimental Stress Analysis	3-1-0	
3.	DTP4E3	Applied Friction and Plasticity	0-0-12	
4.	DTP4E4	Automotive Systems Analysis and Design	3-0-4	
Total Credit for SEM V			12 actual + 4 Virtual credits	
SEM VI			L-T-P	
1.	DTP6D2	Dissertation Phase II	0-0-12	
2.	DTP6V6	Comprehensive Viva IV	0-0-4	
Total Credit for SEM VI			12 actual + 4 Virtual credits	