

JABALPUR ENGINEERING COLLEGE, JABALPUR (MP)
(An Autonomous Institute of Govt. of M.P.)
Affiliated to Rajiv Gandhi Technological University, Bhopal (MP)
Scheme of Study and Examination (w.e.f. July 2010)

M.E. III Sem. Branch : Civi Engg. Specialization : Environment Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
CE-145	Waste Water Treatment System Design	3	1	-	10	20	30	70	100	4
CE-146A	Elective - III (Any One)									
	Design of Water Treatment Systems									
CE-146B	Environmental Management	3	1	-	10	20	30	70	100	4
CE-146C	Recycling of Industrial Waste Water & Disposal									
(PRACTICAL/DRAWING/DESIGN)										
CE-147L	Seminar/ Project	-	-	4	100	-	100	-	100	4
CE148L	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
CE-149L	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

T.A. Teachers Assessment, CT- Class Test, ESE - End Semester Examination, Total Marks 500
 Total Periods : 16 Total Credits :20

NOTE : The students shall go on industrial training at the end of second semester and the evaluation shall be done at the end of third semester. The student has to present a report on the training and also has to face a viva voice examination in front of a panel headed by head of the department. The seminar /project shall be assigned by the supervisor


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M.E. III Sem. Branch : Civil Engg. Specialization : Geotechnical Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>CE-140</u>	Ground Improvement Techniques	3	1	-	10	20	30	70	100	4
<u>CE-141A</u>	Elective - III (Any One)									
	Analysis & Design of Foundation Structures	3	1	-	10	20	30	70	100	4
<u>CE-141B</u>	Traffic Engineering									
<u>CE-141C</u>	FEM in Geotech. Engg.									
(PRACTICAL/DRAWING/DESIGN)										
<u>CE-142L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>CE-143L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>CE-144L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. III Sem. Branch : Civi Engg. Specialization : Structural Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>CE-150</u>	Stability Theory in Structural Engineering	3	1	-	10	20	30	70	100	4
<u>CE-151A</u>	Elective - III (Any One)									
	Design of Tall Structures									
<u>CE-151B</u>	Design of Offshore Structures	3	1	-	10	20	30	70	100	4
<u>CE-151C</u>	Reliability Based Civil Engineering Design									
<u>CE-151D</u>	Rock Mechanics & Foundation Engg.									
(PRACTICAL/DRAWING/DESIGN)										
<u>CE-152L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>CE-153L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>CE-154L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. III Sem. Branch : Electrical Engg. Specialization : Control Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>EE-134</u>	Robotics	3	1	-	10	20	30	70	100	4
<u>EE-135A</u>	Elective - III (Any One)									
	State Estimation System Identification	3	1	-	10	20	30	70	100	4
<u>EE-135B</u>	Sensor Technology									
(PRACTICAL/DRAWING/DESIGN)										
<u>EE-136L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>EE-137L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>EE-138L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
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M.E. IIISem. Branch : Electrical Engg. Specialization : High Voltage Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>EE-139</u>	Transient in Transformer & Machines	3	1	-	10	20	30	70	100	4
<u>EE-119C</u>	Elective - III (Any One)									
	SCADA	3	1	-	10	20	30	70	100	4
<u>EE-140A</u>	Power Quality									
(PRACTICAL/DRAWING/DESIGN)										
<u>EE-141L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>EE-142L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>EE-143L</u>	Preliminaries of Dissertation	-		4	40	-	40	60	100	4
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M.E. III Sem.

Branch : Electrical Engg.

Specialization : High Voltage & Power System Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>EE-144</u>	Transient in Power System	3	1	-	10	20	30	70	100	4
-	Elective - III (Any One)									
<u>EE-145 A</u>	Adv. Electrical Drives									
<u>EE-120C</u>	Adv. Micro Processor and Micro Controllers	3	1	-	10	20	30	70	100	4
<u>EE-145B</u>	Fuzzy Logic & Control									
(PRACTICAL/DRAWING/DESIGN)										
<u>EE-146L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>EE-147L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>EE-148L</u>	Preliminaries of Dissertation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. III Sem. Branch : E & C Engg.

Specialization : Communication System Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
EC-127	Wireless Communication	3	1	-	10	20	30	70	100	4
-	Elective - III (Any One)									
EC-128A	Advanced Optical Communication	3	1	-	10	20	30	70	100	4
EC-128B	Video Processing									
(PRACTICAL/DRAWING/DESIGN)										
EC-129L	Seminar/ Project	-	-	4	100	-	100	-	100	4
EC-130L	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
EC-131L	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. IIISem. Branch : E & C Engg. Specialization : Microwave Engineering

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>EC-132</u>	Optimization Techniques in RF & Microwave	3	1	-	10	20	30	70	100	4
<u>EC-133A</u>	Elective - III (Any One)									
	Smart Antenna for mobile Communication	3	1	-	10	20	30	70	100	4
<u>EC-133B</u>	RFID									
(PRACTICAL/DRAWING/DESIGN)										
<u>EC-134L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>EC-135L</u>	Industrial Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>EC-136L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. III Sem. Branch : Mech. Engg. Specialization : Heat Power

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
<u>ME-127</u>	Climatology Engineering	3	1	-	10	20	30	70	100	4
<u>ME-128A</u>	Elective - III (Any One)									
	Cryogenic Engg.									
<u>ME-128B</u>	Advances in I. C. Engine Technology	3	1	-	10	20	30	70	100	4
<u>ME-128C</u>	Computer Aided Design of Thermal Systems									
(PRACTICAL/DRAWING/DESIGN)										
<u>ME-129L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>ME-130L</u>	Software Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>ME-131L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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M.E. III Sem. Branch : Mechanical Engg. Specialization : Machine Design

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOT			
	Elective - III									
<u>ME-132A</u>	Optimization Methods in Engineering Design									
<u>ME-132B</u>	Theory of Plates and Shells	3	1	-	10	20	30	70	100	4
<u>ME-132C</u>	Advanced mechanics of solids									
	Elective - IV									
<u>ME-133A</u>	Industrial Tribology									
<u>ME-133B</u>	Advanced Topics in Lubricants	3	1	-	10	20	30	70	100	4
<u>ME-133C</u>	Properties and Selection of Engineering Materials									
<u>ME-133D</u>	Experimental Stress Analysis									
(PRACTICAL/DRAWING/DESIGN)										
<u>ME-134L</u>	Seminar/ Project	-	-	4	100	-	100	-	100	4
<u>ME-135L</u>	Software Training (4 weeks)	-	-	-	-	-	-	100	100	4
<u>ME-136L</u>	Preliminaries of Dissertation Presentation	-		4	40	-	40	60	100	4
	Total	6	2	8	160	40	200	300	500	20

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Total Periods : 16 Total Credits : 20

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