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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)

B.E. Fourth Year

Branch: Civil Engineering

SEM: Seventh

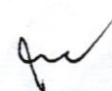
Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOTAL			
CE-40	Estimating Costing & Tendering	3	1	-	10	20	30	70	100	4
CE-41	Structural Design-III (RCC)	3	1	-	10	20	30	70	100	4
CE-43	Environmental Engineering –II	3	1	-	10	20	30	70	100	4
CE-45	Project Management	3	1	-	10	20	30	70	100	4
Refer Table	Elective - I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
CE- 42L	Structural Design-III Lab (RCC)	-	-	2	20	-	20	30	50	2
CE-44L	Environmental Engineering Lab –II	-	-	2	20	-	20	30	50	2
CE-46L	Remote Sensing/GIS Lab	-	-	2	20	-	20	30	50	2
CE-48L	Major Project Planning	-	-	4	40	-	40	60	100	4
CE- 49L	Industrial Training -II*	-	-	2	50	-	50	-	50	2
	Total	15	5	12	200	100	300	500	800	32

*Students will go for Industrial Training after VI semester in the summer vacations and will be assessed in VII semester.

T.A. = Teachers Assessment, CT= Class Test, ESE= End Semester Examination

Total Marks= 800, Total Periods= 32, Total Credits= 32

Elective-I					
CE-047A	1. Computational Methods in Structural Engineering	CE-047B	2 Traffic Engineering	CE-047C	3 Industrial Waste Treatment


Dr. SHAILJA SHUKLA
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B.E. Fourth Year Branch: Computer Science & Engg. SEM: Seventh

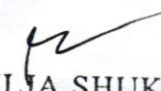
Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOTAL			
IT-17	Internet & Web Technology	3	1	-	10	20	30	70	100	4
CS-29	Compiler Design	3	1	-	10	20	30	70	100	4
CS-31	Advanced Computing Paradigm	3	1	-	10	20	30	70	100	4
CS-33	Data Warehousing & Mining	3	1	-	10	20	30	70	100	4
Refer Table	Elective – I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
IT-18L	Internet & Web Technology Lab	-	-	2	20	-	20	30	50	2
CS-30L	Compiler Design Lab	-	-	2	20	-	20	30	50	2
CS-32L	Advanced Computing Paradigm Lab	-	-	2	20	-	20	30	50	2
CS-35L	Major Project Planning	-	-	4	40	-	40	60	100	4
CS-36L	Industrial Training –II*	-	-	2	50	-	50	-	50	2
		15	5	12	200	100	300	500	800	32

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Elective-I					
CS-034A	1. Advanced Computer Architecture	CS-034B	2. Mobile Computing	CS-034C	3. Real Time System


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B.E. Fourth Year

Branch: Electrical Engineering

SEM: Seventh

B.E. Fourth Year		Branch: Electrical Engineering			SEM: SEVEN					Credits
Course Code	Subject	Periods			EVALUATION SCHEME					
		L	T	P	SESSIONAL EXAM			ESE	SUB TOT AL	
					TA	CT	TOT AL			
EE-36	Power System Analysis	3	1	-	10	20	30	70	100	4
EE-38	High Voltage Engineering	3	1	-	10	20	30	70	100	4
EE-40	Electrical Drive	3	1	-	10	20	30	70	100	4
EE-42	Power System Planning & Reliability	3	1	-	10	20	30	70	100	4
Refer Table	Elective – I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
EE- 37L	Power System Analysis Lab	-	-	2	20	-	20	30	50	2
EE-39L	High Voltage Engineering Lab	-	-	2	20	-	20	30	50	2
EE-41L	Electrical Drive Lab	-	-	2	20	-	20	30	50	2
EE-44L	Major Project Planning	-	-	4	40	-	40	60	100	4
EE-45L	Industrial Training-II*	-	-	2	50	-	50	-	50	2
	Total	15	5	12	200	100	300	500	800	32

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Elective-I					
EE-043A	1. Digital Control System	EE-043B	2. Generalized Theory Of Electrical Machine	EE-043C	3. Soft Computing Techniques

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B.E. Fourth Year Branch: Electronics & Telecommunication Engg. SEM: Seventh

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOTAL			
EC-41	TV & Digital Display Devices	3	1	-	10	20	30	70	100	4
EC-43	Optical Communication	3	1	-	10	20	30	70	100	4
EC-45	RADAR Engg. & Adv. Antenna	3	1	-	10	20	30	70	100	4
EC-47	Information Theory & Coding	3	1	-	10	20	30	70	100	4
Refer Table	Elective – I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
EC- 42L	TV & Digital Display Devices Lab	-	-	2	20	-	20	30	50	2
EC-44L	Optical Communication Lab	-	-	2	20	-	20	30	50	2
EC-46L	RADAR Engg. & Adv. Antenna Lab	-	-	2	20	-	20	30	50	2
EC-49L	Major Project Planning	-	-	4	40	-	40	60	100	4
EC-50L	Industrial Training-II*	-	-	2	50	-	50	-	50	2
		15	5	12	200	100	300	500	800	32

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Elective-I					
EC-048A	1. Image Processing & Pattern Recognition	EC-048B	2. Artificial Intelligence and Neural Network	EC-048C	3. Wireless and Mobile Communication.

Dr. Shailja Shukla
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B.E. Fourth Year

Branch: Industrial & Production

SEM: Seventh

Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOTAL			
✓ IP-30	Supply Chain & Quality Management	3	1	-	10	20	30	70	100	4
✓ IP-32	Industrial Robotics & Mechatronics	3	1	-	10	20	30	70	100	4
IP-33	Industrial Engineering	3	1	-	10	20	30	70	100	4
✓ IP-35	Vibrations & Maintenance Engineering	3	1	-	10	20	30	70	100	4
Refer Table	Elective - I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
✓ IP- 31L	Supply Chain & Quality Management Lab	-	-	2	20	-	20	30	50	2
✓ IP-34L	Industrial Engineering Lab	-	-	2	20	-	20	30	50	2
✓ IP-36L	Vibrations & Maintenance Engineering Lab	-	-	2	20	-	20	30	50	2
✓ IP-39L	Major Project Planning	-	-	4	40	-	40	60	100	4
✓ IP- 40L	Industrial Training – II*	-	-	2	50	-	50	-	50	2
	Total	15	5	12	200	100	300	500	800	32

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Elective-I					
IP-037A ✓	1. Project Management	IP-037B ✓	2. Material Management & Product Design	ME-46/ IP-037C ✓	3. Automobile Engineering

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B.E. Fourth Year

Branch: Information Technology

SEM: Seventh

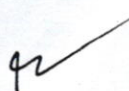
Course Code	Subject	Periods			EVALUATION SCHEME					Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL	
					TA	CT	TOTAL			
IT-22	Machine Learning	3	1	-	10	20	30	70	100	4
IT-24	Embedded System	3	1	-	10	20	30	70	100	4
IT-26	Wireless & Mobile Computing	3	1	-	10	20	30	70	100	4
IT-27	Simulation & Modeling	3	1	-	10	20	30	70	100	4
Refer Table	Elective-I	3	1	-	10	20	30	70	100	4
(PRACTICAL/DRAWING/DESIGN)										
IT-23L	Machine Learning Lab	-	-	2	20	-	20	30	50	2
IT-25L	Embedded System Lab	-	-	2	20	-	20	30	50	2
IT-28L	Simulation & Modeling Lab	-	-	2	20	-	20	30	50	2
IT-30L	Major project planning	-	-	4	40	-	40	60	100	4
IT-31L	Industrial Training-II*	-	-	2	50	-	50	-	50	2
		15	5	12	200	100	300	500	800	32

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Elective-I					
IT-029A	1. Distributed System	IT-029B	2. Advanced Data Base Management System	IT-029C	2. Advanced Computer Architecture


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B.E. Fourth Year

Branch: **Mechanical Engineering**

SEM: **Seventh**

SEM: Seventh		Branch: Mechanical Engineering			D.E. Fourth Year						
Course Code	Subject	Periods			EVALUATION SCHEME						Credits
		L	T	P	SESSIONAL EXAM			ESE	SUB TOTAL		
					TA	CT	TOTAL				
ME-46	Automobile Engineering	3	1	-	10	20	30	70	100	4	
ME-48	Mechanical Vibration & Noise Engineering	3	1	-	10	20	30	70	100	4	
ME-50	OR & Supply Chain	3	1	-	10	20	30	70	100	4	
ME-52	Renewable Energy Systems	3	1	-	10	20	30	70	100	4	
Refer Table	Elective – I	3	1	-	10	20	30	70	100	4	
(PRACTICAL/DRAWING/DESIGN)											
ME-47L	Automobile Engineering Lab	-	-	2	20	-	20	30	50	2	
ME-49AL	Mechanical Vibration & Noise Engineering Lab	-	-	2	20	-	20	30	50	2	
ME-51L	OR & Supply Chain Lab	-	-	2	20	-	20	30	50	2	
ME-54L	Major Project Planning	-	-	4	40	-	40	60	100	4	
ME-55L	Industrial Training*	-	-	2	50	-	50	-	50	2	
	Total	15	5	12	200	100	300	500	800	32	

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Total Marks= 800, Total Periods= 32, Total Credits= 32

Elective-I					
ME-053A	1. Design of Heat Exchangers	ME-053B	2 Computer Aided Engineering & FEM	ME-053C	3 Industrial Robotics