1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/elective course system has been implemented (10)

Civil Engg

FOUR YEAR DEGREE COURSE IN CIVIL ENGINEERING

SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - FIFTH

Appendix - A

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5CE01	Reinforced Cement Concrete-II	3	1	-	4	4	4	80	20	100	40	-	-	-	-
02	5CE02	Fluid Mechanics-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	5CE03	Building Planning & CAD	2	-	-	2	2	4	80	20	100	40	-	-	-	-
04	5CE04	Surveying-II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	5FECE05	Free Elective-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	5CE06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	5CE07	Fluid Mechanics-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	5CE08	Building Planning & CAD-lab	-	-	4	4	2	-	-	-	-	-	25	25	50	25
09	5CE09	Surveying-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	5CE10	Communication Skills-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
		Total	17	2	10	29	24				550				200	
															GRAND TOTAL : 750	
Free Elective I : (i) Introduction To Earthquake Engineering (ii) Basics of Building Construction (iii) Watershed Management																
SEMESTER : SIXTH																
THEORY																
01	6CE01	Numerical Methods & Computer Programming	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	6CE02	Structural Design-I	4	-	-	4	4	4	80	20	100	40	-	-	-	-
03	6CE03	Water Resources Engineering-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	6CE04	Transporatation Engineering-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	6FECE05	Free Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	6CE06	Estimating & Costing	3	1	-	4	4	4	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	6CE07	Numerical Methods & Computer Programming - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	6CE08	Structural Design-I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	6CE09	Estimating & Costing-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	6CE10	Minor Project - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
		Total	18	2	10	30	26				600				200	
															GRAND TOTAL : 800	

Free Elective II : (i) Disaster Management (ii) Environmental Management

Note: Students will have to opt the Free Electives offered from other courses of their College / Institution / University Department.

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH - CIVIL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - A

Sr. No.	Subject Code	Subject	TEACHING SCHEME: HOURS / WEEK: Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME: THEORY: DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL: MAX. MARKS: EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7CE01	Theory of Structures-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
02	7CE02	Geotechnical Engineering-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	7CE03	Structural Design-II	4	-	-	4	4	4	80	20	100	40	-	-	-	-
04	7CE04	Environmental Engineering-I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7CE05	Professional Elective-I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7CE06	Theory of Structures-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	7CE07	Geotechnical Engineering-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7CE08	Structural Design-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	7CE09	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	25
		Total	18	2	8	28	27				500				200	
															GRAND TOTAL : 700	

Professional Elective-I (i) Advanced Water Treatment (ii) Advanced Geotechnical Engineering (iii) Water Power Engineering (iv) Prestressed Concrete (v) Artificial Neural Network & Fuzzy Logic (vi) Advanced Concrete Technology (vii) Environmental Pollution & Rural Sanitation (viii) Advanced Earthquake Engineering

SEMESTER : EIGHTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME: HOURS / WEEK: Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME: THEORY: DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL: MAX. MARKS: EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	8CE01	Water Resources Engineering-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8CE02	Environmental Engineering-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	8CE03	Project Planning & Management	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8CE04	Professional Elective-II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8CE05	Water Resources Engineering-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
06	8CE06	Environmental Engineering-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8CE07	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75
		Total	13		10	23	27				400				250	
															GRAND TOTAL : 650	

*Professional Elective-II *(i) Advanced Design of Steel Structures (ii) Advanced Waste Water and Industrial Waste Treatment (iii) Finite Element Method (iv) Dam Engineering (v) Advanced Engineering Geology (vi) Matrix Computer Analysis of Structures (vii) Advanced Structural Analysis (viii) Rock Mechanics *(ix) Advanced Design of RCC Structures*

** PAPER 4 HOURS DURATION.*

Mechanical Engg

FOUR YEAR DEGREE COURSE IN MECHANICAL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - FIFTH

Appendix - B

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5ME01	Production Technology	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	5ME02	Heat Transfer	4	1	-	5	5	3	80	20	100	40	-	-	-	-
03	5ME03	Measurement Systems	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	5ME04	Theory of Machines-I	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	5FEME05	Free Elective-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	5ME06	Production Technology-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	5ME07	Heat Transfer-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	5ME08	Measurement Systems-Lab	-	-	2	2	1	-	-	-	-	-	-	25	25	12
09	5ME09	Theory of Machines-I-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	5ME10	Computer Software Applications-I-Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25
		Total	18	2	10	30	26				500				225	
															GRAND TOTAL : 725	

Free Elective-I **1) Manufacturing Techniques 2) Ergonomics 3) Production Management 4) Project Management**

SEMESTER : SIXTH

THEORY																
01	6ME01	Fluid Power-II	4	1	-	5	5	3	80	20	100	40	-	-	-	-
02	6ME02	Computer Software Applications	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	6ME03	Control System Engineering	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	6ME04	Theory of Machines-II	4	1	-	5	5	3	80	20	100	40	-	-	-	-
05	6FEME05	Free Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	6ME06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	6ME07	Fluid Power-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	6ME08	Computer Software Applications-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	6ME09	Theory of Machines-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	6ME10	Communication Skills-Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25
		Total	20	2	8	30	26				550				200	
															GRAND TOTAL : 750	

Free Elective-II **1) Automobile Engineering 2) Non-conventional Energy Systems 3) Energy Management**

Note : Students will have to opt the free electives offered from other courses of their College / Institution / University Department

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH - MECHANICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - B

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hrs.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7ME01	Machine Design & Drawing II	3	-	-	3	3	4	80	20	100	40	-	-	-	-
02	7ME02	Energy Conversion-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	7ME03	Industrial Management and Costing	3	1	-	4	4	3	80	20	100	40	-	-	-	-
04	7ME04	Automation Engineering	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	7ME05	Professional Elective-I	3	1	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7ME06	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	25
07	7ME07	Machine Design & Drawing-II-Lab.	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7ME08	Energy Conversion-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	7ME09	Automation Engineering-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	7ME10	Professional Elective I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
		Total	15	4	10	28	27				500				250	
															GRAND TOTAL : 750	

Professional Elective-I (1) Non Conventional Energy System (2) Tool Engineering (3) Artificial Intelligence & Expert Systems (4) Mechatronics

SEMESTER : EIGHTH

THEORY																
01	8ME01	Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8ME02	Elective-III	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	8ME03	I.C. Engines	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8ME04	Operations Research Techniques	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8ME05	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75
06	8ME06	Professional Elective-III-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8ME07	I.C. Engines-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	8ME08	Operations Research Techniques-Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25
		Total	12	-	12	24	27				400				300	
															GRAND TOTAL : 700	

Professional Elective-II (1) Automobile Engineering (2) Production Planning & Control (3) Management Information Systems (4) Advanced Manufacturing Systems
Professional Elective-III 1) Refrigeration & Air Conditioning 2) Machine Tool Design 3) Finite Element Methods 4) Robotics

Electrical Engg

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH : ELECTRICAL ENGINEERING (ELECTRONICS & POWER)- SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - FIFTH

Appendix - C

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
													EXTERNAL	INTERNAL		
THEORY																
01	5EP01	Control Systems - I	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	5EP02	Microprocessor & Microcontroller	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	5EP03	Electrical Machines - II	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	5EP04	Signals & Systems	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	5FEEP05	Free Elective-I	3	_	_	3	3	3	80	20	100	40	_	_	_	_
06	5EP06	Communication Skills	2	_	_	2	2	2	40	10	50	20	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
07	5EP07	Control Systems - I -Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	5EP08	Microprocessor & Microcontroller -Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	5EP09	Electrical Machines - II- Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
10	5EP10	Communication Skills- Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	21	_	8	29	25				550				200	
															TOTAL	750

Free Elective -I 1) Energy Audit & Management 2] Electrical Drives

Semester : Sixth																
THEORY																
01	6EP01	Electrical Power - I	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	6EP02	Optimisation Techniques	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	6EP03	Power Electronics	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	6EP04	Computer Aided Machine Design	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	6FEEP05	Free Elective-II	3	_	_	3	3	3	80	20	100	40	_	_	_	_
06	6EP06	Electrical Energy Utilisation	4	_	_	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
07	6EP07	Power Electronics - I Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	6EP08	Computer Aided Machine Design Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	6EP09	Electrical Energy Utilisation Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	23	_	6	29	26				600				150	
															TOTAL	750

Free Elective -II 1) Electrical Estimating & Costing 2] Power Supply Systems

Note : Students will have to opt the free electives offered from other courses of their College / Institution / University Department

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH - ELECTRICAL ENGINEERING (ELECTRONICS & POWER) - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - C

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN PASSING MARKS
THEORY																
01	7EP01	Control System II	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	7EP02	Power System Operation & Control	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	7EP03	Electrical Power - II	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	7EP04	Switchgear & Protection	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	7EP05	Professional Elective - I *	4	_	_	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	7EP06	Project & Seminar	_	_	2	2	4	_	_	_	_	_	0	50	50	25
07	7EP07	Electrical Power - II- Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	7EP08	Switchgear & Protection- Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	20	_	6	26	26				500				150	
															TOTAL	650

* Professional Elective - I 1] Process Control System 2] Computer organisation 3] Computer Methods in Power System Analysis 4] Artificial Intelligence

SEMESTER - EIGHTH

THEORY																
01	8EP01	Power System Stability	3	_	_	3	3	3	80	20	100	40	_	_	_	_
02	8EP02	High Voltage Engineering	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	8EP03	Digital Signal Processing	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	8EP04	Professional Elective - II**	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8EP05	Project & Seminar	_	_	6	6	12	_	_	_	_	_	75	75	150	25
06	8EP06	Digital Signal Processing- Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	14	0	8	22	27				400				200	
															TOTAL	600

** Professional Elective - II 1] Electric Drives & Control 2] Power Quality 3] Embedded Systems 4] Generalized Machine Theory

Electronics & Telecommunication engg

Four Year Degree Course in Bachelor of Engineering
Branch : Electronics & Telecommunication Engineering
Semester Pattern (Credit Grade System)

APPENDIX - B

Semester : Fifth

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WE	CREDITS	EXAMINATION SCHEME THEORY DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5XT1	Electronic Devices & Circuits-II	4	1		5	5	3	80	20	100	40	_	_	_	_
02	5XT2	Power Electronics	4			4	4	3	80	20	100	40	_	_	_	_
03	5XT3	Control System Engineering	4	1		5	5	3	80	20	100	40	_	_	_	_
04	5XT4	Communication Engineering-II	4			4	4	3	80	20	100	40	_	_	_	_
05	5FEXT5	Free Electrive- I	4			4	4	3	80	20	100	40	_	_	_	_
06	5XT6	Communication Skills	2			2	2	2	40	10	50	20				
		Free Elective - I : 1. Consumer Electronics 2. Fibre Optics														
PRACTICALS / DRAWING / DESIGN																
07	5XT7	Electronic Devices & Circuits-II Lab			2	2	1	_	_	_	_	_	25	25	50	25
08	5XT8	Power Electronics Lab			2	2	1	_	_	_	_	_	25	25	50	25
09	5XT9	Communication Engineering-II Lab			2	2	1	_	_	_	_	_	25	25	50	25
10	5XT10	Communication Skills Lab			2	2	1						15	10	25	12
		TOTAL	22	2	8	32	28				550				175	
														TOTAL	725	

Semester : Sixth

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WE	CREDITS	EXAMINATION SCHEME THEORY DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	6XT1	Digital Integrated Circuits	4			4	4	3	80	20	100	40	_	_	_	_
02	6XT2	Linear Integrated Circuits	4	1		5	5	3	80	20	100	40	_	_	_	_
03	6XT3	Introduction to Microprocessors	4	1		5	5	3	80	20	100	40	_	_	_	_
04	6XT4	Digital Communication	4			4	4	3	80	20	100	40	_	_	_	_
05	6FEXT5	Free Electrive -II	4			4	4	3	80	20	100	40	_	_	_	_
		Free Elective - II : 1. Introduction to Wireless Technology 2. Electronic Test Instruments - Analog and Digital.														
PRACTICALS / DRAWING / DESIGN																
06	6XT6	Integrated Circuits Lab			2	2	1	_	_	_	_	_	25	25	50	25
07	6XT7	Introduction to Microprocessors Lab			2	2	1	_	_	_	_	_	25	25	50	25
08	6XT8	Digital Communication Lab			2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	20	2	6	28	25				500				150	
														TOTAL	650	

Note : Students will have to opt the free electives offered from other courses of their college / Institution / University Department.

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH - ELECTRONICS & TELICOMMUNICATION ENGINEERING -SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER- SEVENTH

Appendix - B

Sr. No.	Subject Code		TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WEE	CREDITS	EXAMINATION SCHEME THEORY DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMEN	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7XT1	Data Communication Network	4	-	-	4	4	3	80	20	100	40	_	_	_	_
02	7XT2	Microcontroller and Applications	4	1	_	5	5	3	80	20	100	40	_	_	_	_
03	7XT3	Digital Signal Processing	4	1	-	5	5	3	80	20	100	40				
04	7XT4	Professional Elective-I	4	-	-	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	7XT5	Microcontroller and Applications Lab	-	-	2	2	1						25	25	50	25
06	7XT6	Digital Signal Processing Lab	-	-	2	2	1	_	_	_	_	_	25	25	50	25
07	7XT7	Simulation Lab	-	-	2	2	1						25	25	50	25
08	7XT8	Project and Seminar				2	4					_	_	50	50	25
		TOTAL	16	2	6	26	25				400				200	

Professional Elective-I: 1. VLSI Design 2. Computer Organization 3. Artificial Intelligence 4. Satellite & Optical Fibre communication 5. Audio & Video Engineering — TOTAL 600

Semester : Eighth

THEORY																
01	8XT1	UHF and Microwaves	4	1	-	5	5	3	80	20	100	40	_	_	_	_
02	8XT2	Electronics Circuit Design	4	1	-	5	5	3	80	20	100	40	_	_	_	_
03	8XT3	Wireless Communication	4	-	-	4	4	3	80	20	100	40	_	_	_	_
04	8XT4	Professional Elective-II	4	-	-	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8XT5	UHF & Microwaves Lab	-	-	2	2	1	_	_	_	_	_	25	25	50	25
06	8XT6	Electronics Circuit Design Lab	-	-	2	2	1	_	_	_	_	_	25	25	50	25
07	8XT7	Project and Seminar	-	-	-	6	12	-	-	-	-	-	75	75	150	75
		TOTAL	16	2	4	28	32	-	-	-	400	-	-	-	250	

Professional Elective-II: 1. Biomedical Engineering 2. Digital Image Processing 3.. ARM system development and design 4. Embedded and Real time system 5.Smart sensors — **TOTAL 650**

Computer Sci and Engg

Four Year Degree Course in Bachelor of Engineering

Branch : Computer Science & Engineering- Semester Pattern (Credit Grade System)

SEMESTER : FIFTH

APPENDIX - D

Semester :FIFTH																			
			TEACHING SCHEME					EXAMINATION SCHEME											
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL						
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D			DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS			
													EXTERNAL	INTERNAL					
THEORY																			
01	5KS01	Data Communication	4	—	–	4	4	3	80	20	100	40	–	–	–	–			
02	5KS02	File Structures & Data Processing	4	1	–	5	5	3	80	20	100	40	–	–	–	–			
03	5KS03	System Software	4	–	–	4	4	3	80	20	100	40	–	–	–	–			
04	5KS04	Switching Theory & Logic Design	4	1	–	5	5	3	80	20	100	40	–	–	–	–			
05	5FEKS05	Free Elective I*	3	–	–	3	3	3	80	20	100	40	–	–	–	–			
06	5KS06	Communication Skills	2	–	–	2	2	2	40	10	50	20	–	–	–	–			
PRACTICALS / DRAWING / DESIGN																			
07	5KS07	System Software Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25			
08	5KS08	Switching Theory & Logic Design Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25			
09	5KS09	Communication Skills Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25			
		TOTAL	21	2	6	29	26				550				150				
														TOTAL	700				

Free Elective I* (i) Data Structures & Algorithms (ii) Data Communication & Networking

Semester :SIXTH																			
THEORY																			
01	6KS01	Operating Systems	4	1	–	5	5	3	80	20	100	40	–	–	–	–			
02	6KS02	Database Systems	4	–	–	4	4	3	80	20	100	40	–	–	–	–			
03	6KS03	Computing Resources Management	4	–	–	4	4	3	80	20	100	40	–	–	–	–			
04	6KS04	Computer Architecture	3	1	–	4	4	3	80	20	100	40	–	–	–	–			
05	6FEKS05	Free Elective II*	3	–	–	3	3	3	80	20	100	40	–	–	–	–			
06	6KS06	Professional Ethics	2	–	–	2	2	2	40	10	50	20	–	–	–	–			
PRACTICALS / DRAWING / DESIGN																			
07	6KS07	Operating Systems Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25			
08	6KS08	Database Systems Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25			
09	6KS09	Computer Lab-II (Hardware Lab)	1	–	2	3	2	–	–	–	–	–	25	25	50	25			
		TOTAL	21	2	6	29	26				550				150				
														TOTAL	700				

Free ElectiveII* (i) Database Management System (ii) Software Project Management

Note : Students will have to opt the free electives offered from other courses of their college / Institution / University Department.

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH - COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - E

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7KS01	Digital Signal Processing	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	7KS02	Computer Networks	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	7KS03	Design & Analysis of Algorithms	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	7KS04	Object Oriented Analysis & Design	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	7KS05	Professional Elective I*	4	_	_	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	7KS06	Digital Signal Processing Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	7KS07	Design & Analysis of Algorithms Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	7KS08	Object Oriented Analysis & Design Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	7KS09	Project & Seminar	_	_	2	2	4	_	_	_	_	_	_	50	50	25
		TOTAL	20	_	8	28	27				500				200	
														TOTAL	700	

Professional Elective I* (i) Computer Graphics (ii) Multimedia Technologies (iii) Web Engineering (iv) Human Computer Interface

Semester :EIGHTH																
THEORY																
01	8KS01	Artificial Intelligence	3	_	_	3	3	3	80	20	100	40	_	_	_	_
02	8KS02	Embedded Systems	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	8KS03	Software Engineering	3	_	_	3	3	3	80	20	100	40	_	_	_	_
04	8KS04	Professional Elective II*	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8KS05	Artificial Intelligence -Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
06	8KS06	Embedded Systems -Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	8KS07	Project & Seminar			6	6	12						75	75	150	75
		TOTAL	13	_	10	23	27				400				250	
														TOTAL	650	

Professional Elective II* (i)Distributed Computing (ii) Mobile Computing (iii) Soft Computing (iv) Network Security

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH : INFORMATION TECHNOLOGY - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - FIFTH

Appendix - G

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
													EXTERNAL	INTERNAL		
THEORY																
01	5IT01	Operating Systems	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	5IT02	Digital Integrated Circuits	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	5IT03	Computer Architecture & Organisation	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	5IT04	Communication Skills	2	_	_	2	2	2	40	10	50	20	_	_	_	_
05	5FEIT05	Free Elective I*	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	5IT06	Operating Systems-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	5IT07	Digital Integrated Circuits-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	5IT08	Communication Skills-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	5IT09	Computer Lab-III (VC++)	1	--	2	3	2	_	_	_	_	_	25	25	50	25
		TOTAL	18	--	8	26	22				450				200	
														TOTAL	650	

Free Elective I* (i) Introduction to Computer Networks (ii) IT Ethics & Practices

Semester :SIXTH

THEORY																
01	6IT01	Principles of Management	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	6IT02	Database Management Systems	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	6IT03	Theory of Computation	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	6IT04	Computer Networks	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	6FEIT05	Free Elective II*	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	6IT06	Database Management Systems-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	6IT07	Computer Networks-Labs	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	6IT08	Computer Lab-IV (UML)	1	_	2	3	2	_	_	_	_	_	25	25	50	25
		TOTAL	20	_	6	26	23				500				150	
														TOTAL	650	

Free Elective II* (i) E Commerce (ii) Knowledge Management

Note : Students will have to opt the free electives offered from other courses of their College / Institution / University Department

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH : INFORMATION TECHNOLOGY - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

Appendix - H

SEMESTER - SEVENTH

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7IT01	Digital Signal Processing	4	_	_	4	4	3	80	20	100	40	_	_	_	_
02	7IT02	Object Oriented System Analysis & Design	4	_	_	4	4	3	80	20	100	40	_	_	_	_
03	7IT03	Web Technology	4	_	_	4	4	3	80	20	100	40	_	_	_	_
04	7IT04	Real Time Embedded Systems	4	_	_	4	4	3	80	20	100	40	_	_	_	_
05	7IT05	Professional Elective I*	4	_	_	4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	7IT06	Digital Signal Processing-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	7IT07	Web Technology-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	7IT08	Real Time Embedded Systems-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	7IT09	Project & Seminar	_	_	2	2	4	_	_	_	_	_	_	50	50	25
		TOTAL	20	_	8	28	27				500				200	
														TOTAL	700	

Professional Elective I* (i) Distributed DBMS (ii) Modelling & Simulation (iii) Artificial Intelligence & Expert Systems (iv) Multimedia Technologies

			Semester :EIGHTH													
THEORY																
01	8IT01	Digital & Wireless Communication	3	_	_	3	3	3	80	20	100	40	_	_	_	_
02	8IT02	Network Administration & Security	3	_	_	3	3	3	80	20	100	40	_	_	_	_
03	8IT03	Software Engineering	3	_	_	3	3	3	80	20	100	40	_	_	_	_
04	8IT04	Professional Elective II*	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8IT05	Network Administration & Security-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
06	8IT06	Software Engineering-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	8IT07	Computer Lab-V (Content Management System)	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	8IT08	Project & Seminar	_	_	6	6	12	_	_	_	_	_	75	75	150	75
		TOTAL	12	_	12	24	27				400				300	
														TOTAL	700	

Professional Elective II* (i) Data Warehousing & Data Mining (ii) Web-Commerce (iii) Cloud Computing (iv) Neural Networks & Fuzzy Logics

APPENDIX-A

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
(STRUCTURAL ENGINEERING)
CREDIT GRADE SYSTEM
FIRST SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme: Hours/Week Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme: Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min.Passing Marks Theory Paper	Min.Passing Marks Subject	Practical Max.Marks External	Max.Marks Internal	Total	Min. Passing Marks
1	1SFSE1	Introduction to Earthquake Engineering	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	1SFSE2	Theory of Plates and Shells	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	1SFSE3	Computer Methods of Structural Analysis	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	1SFSE4	Structural Dynamics	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	1SFSE5	Earthquake Resistant Design of Reinforced Concrete Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	1SFSE6	Earthquake Resistant Design of Reinforced Concrete Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	1SFSE7	Computer Aided Analysis & Design of Structures – Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	23				500					100	
														TOTAL			600

SECOND SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme: Hours/Week Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme: Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min.Passing Marks Theory Paper	Min.Passing Marks Subject	Practical Max.Marks External	Max.Marks Internal	Total	Min. Passing Marks
1	2SFSE1	Finite Element Method	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2SFSE2	Advanced Design of Steel Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2SFSE3	Repairs & Retrofitting of Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4.	2SFSE4	Design of Prestressed Concrete structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5.	2SFSE5	Elective*	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6.	2SFSE6	Adv. Design of Steel Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7.	2SFSE7	Design of Prestressed Concrete Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22				500					100	
														TOTAL			600

Elective-II : 1) Substructures and Foundation Design (2) Earthquake Resistant Design of Bridges and Dams (3) Theory of Elasticity and Stability (4) Design of Environmental Structures

Mechanical (CAD/CAM)

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
MECHANICAL ENGINEERING (CAD/CAM)
CREDIT GRADE SYSTEM
FIRST SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme Hours/Week Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Practical Max. Marks External	Practical Max. Marks Internal	Practical Total	Practical Min. Passing Marks
1	1MCC1	Computer Aided Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	1MCC2	Computer Aided Manufacturing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	1MCC3	Computer Assisted Production Management	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	1MCC4	Mechatronics	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	1MCC5	Elective-I	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	1MCC6	Computer Aided Design-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	1MCC7	Computer Aided Manufacturing-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22	-	-	-	500					100	
														TOTAL			600

Elective - I : 1) Concurrent Engineering 2) Engineering Experimental Techniques 3) Management Information Systems 4) Optimization Techniques 5) Design of Manufacturing Assembly and Environment

SECOND SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme Hours/Week Lecture	Tutorial	P/O	Total Hours/ Week	Credits	Examination Scheme Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Practical Max. Marks External	Practical Max. Marks Internal Marks	Practical Total	Practical Min. Passing
1	2MCC1	Finite Element Analysis	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2MCC2	Simulation Theory &Applications	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2MCC3	Robotics & Robot Applications	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	2MCC4	Industrial Product Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	2MCC5	Elective-II	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	2MCC6	Finite Element Analysis-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	2MCC7	Simulation Theory & Applications V-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22	-	-	-	500					100	
														TOTAL			600

Elective-II : 1) Flexible Manufacturing System 2) Virtual Manufacturing 3) Industrial Automation 4) Rapid Prototyping and Tooling

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL-TIME)
DIGITAL ELECTRONICS
CREDIT GRADE SYSTEM
FIRST SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme: Hours/Week: Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme: Theory: Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Practical: Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
1	1UMEF1	Digital Electronics	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	1UMEF2	Advanced Digital Signal Processing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	1UMEF3	Elective-I	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	1UMEF4	Digital Communication Techniques	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	1UMEF5	Embeded System Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	1UMEF6	Digital Communication Techniques-Lab.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	1UMEF7	Embeded System Design-Lab.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22				500					100	
														TOTAL			600

Elective - I : 1) Modern Electronic Design Techniques 2) RF System Design 3) Computer Communication Network

SECOND SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme: Hours/Week: Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme: Theory: Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Practical: Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
1	2UMEF1	Digital Image Processing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2UMEF2	CMOS VLSI Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2UMEF3	Parallel Computing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	2UMEF4	Artificial Intelligent Systems	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	2UMEF5	Elective-II	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	2UMEF6	Digital Image Processing-Lab.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	2UMEF7	CMOS VLSI Design-Lab.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22				500					100	
														TOTAL			600

Elective - II : 1) Bio-Informatics 2) Micro Electro Mechanical System 3) High Speed Digital System Design

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL-TIME)
COMPUTER SCIENCE & ENGINEERING
CREDIT GRADE SYSTEM
FIRST SEMESTER

SECOND SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme: Hours/Week: Lecture	Tutorial	P/D	Total Hours/ Week	Credits	Examination Scheme: Theory: Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assess-ment	Total	Min.Passing Marks: Theory Paper	Subject	Practical: Max.Marks: External	Internal	Total	Min. Passing Marks
1	2RMEF1/ 2RME1	Computer Communication Networks	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2RMEF2/ 2RME2	Advanced Compiling Techniques	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2RMEF3/ 4RME1	Real Time Systems	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	2RMEF4/ 4RME2	Elective	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	2RMEF5/ 4RME3	Technical Paper Writing	0	1	0	1	1	-	-	-	-	-	-	-	50	50	25
6	2RMEF6/ 2RME3	Seminar	0	1	0	1	1	-	-	-	-	-	-	-	50	50	25
7	2RMEF7/ 2RME4	Advanced Compiling Techniques-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
8	2RMEF8/ 4RME4	Real Time Systems-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			16	2	4	22	20				400					200	
														TOTAL			600

Elective : 1) MOBILE COMPUTING 2) NETWORK SECURITY 3) COMPUTER VISION AND IMAGE PROCESSING