SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE

Official Publication of Sant Gadge Baba Amravati University.

PART-ONE

Thursday, the 12th July, 2012

DIRECTION

No. 30 /2012 Date : 10 /07/2012

Subject :- Corrigendum to Direction No. 31 of 2010.

Whereas, the Direction No.31 of 2010 in respect of the examinations leading to the degree of +É¦É²æÉÉÉjÉÉÒÒ {ÉÉ®MÉiÉ(Master of Engineering) (Full Time)/ iÉjÉ–ITN {ÉÉ®MÉiÉ (Master of Technology) (Full Time) (Semester Pattern.. Credit Grade System) is in existence,

AND

Whereas, the Schemes of teaching & examinations for various branches of Two Year Post Graduate Degree Course in Master of Engineering (full time) in the faculty of Engineering & Technology have been provided vide appendices A, B,C,D,E,F,G,H and I appended with Direction No. 31 of 2010,

AND

Whereas, the Schemes of teaching & examination for M.E.Civil (Structural Engineering) is provided vide appendix-A appended with Direction No. 31 of 2010,

AND

Whereas, the Academic Council in its meeting held on 5-5-2012 vide Item No.53(1) A) R-2 has recommended the revised scheme of teaching & examination of M.E.Civil (Structural Engineering),

AND

Whereas, the revised scheme of examination for the above mentioned branch in the faculty of Engineering & Technology are to be implemented from the academic session 2012-2013 in phase wise manner,

AND

Whereas, the Scheme of teaching & examination of the above mentioned branch in the faculty of Engineering & Technology is required to be regulated by the Regulation,

AND

Whereas, the process of making the Regulation is likely to take some time,

AND

Whereas, the syallabus of the above mentioned branch along with the revised scheme of examination in the faculty of Engineering & Technology is to be made available for the students admitted during the session 2012-2013,

Now, therefore,I, Dr. Mohan K.Khedkar, Vice-Chancellor of Sant Gadge Baba Amravati University, Amravati in exercise of powers conferred upon me under sub-section (8) of Section 14 of the Maharashtra Universities Act, 1994, do hereby direct as under :-

1) This Direction shall be called "Corrigendum to Direction No. 31 of 2010".
2) This Direction shall come into force with effect from the session:

i)2012-2013 for Semester -I & II and,
ii)2013-2014 for Semester - III & IV

3) The revised schemes of teaching & examinations of Master of Engineering Civil (Structural Engineering) (full time) shall be as per the appendix-A, appended with this Direction.
4) Other contents of the Direction No. 31 of 2010 will remain unchanged.

Sd/-
Date : 10 /07/2012 (Mohan K. Khedkar)
Vice-Chancellor

Sant Gadgebaba Amravati University, Amravati-444602

Two year post-graduate course in Civil Engineering (Structural Engineering)

Master of Engineering (Full Time)

Appendix-A

FIRST SEMESTER

Sr No.	Name Of the subject		THEORY										PRACTICAL			
			Hours/ Week			Duration (Hrs)	Credits	Max. Marks Theory Papers	Max. Marks College assessment	Total	Min. Pass Marks		Max Marks	Max. Marks College assessment	Total	Min Pass Marks
			L	T	P						Theory Papers	College assessment				
1	1SFSE1	Introduction to Earthquake And Retrofitting of Structures	4	-	-	3	4	80	20	100	40	10	–	–	–	–
2	1SFSE2	Theory of Elasticity And Elastic Stability	4	-	-	3	4	80	20	100	40	10	–	–	–	–
3	1SFSE3	Matrix Methods of Structural Analysis	4	-	-	3	4	80	20	100	40	10	–	–	–	–
4	1SFSE4	Structural Dynamics	4	-	-	3	4	80	20	100	40	10	–	–	–	–
5	1SFSE5	Earthquake Resistant Design of Reinforced Concrete Structures	4	-	-	4	4	80	20	100	40	10	–	–	–	–
6	1SFSE6	Earthquake Resistant Design of Reinforced Concrete Structures - Studio	-	-	2	-	1	-	-	-	-	-	25	25	50	25
7	1SFSE7	Computer Aided Analysis & Design of Structures – Studio	-	-	2	-	2	-	-	-	-	-	25	25	50	25
		TOTAL	20	–	4		23			500					100	

TOTAL : 600

SECOND SEMESTER

Sr No.	Name Of the subject		THEORY									PRACTICAL			
			Hours/ Week			Duration (Hrs)	Credits	Max. Marks Theory Papers	Max. Marks College assessment	Total	Min. Pass Marks		Max Marks	Max. Marks College assessment	Total	Min Pass Marks
			L	T	P						Theory Papers	College assessment				
1	2SFSE1	Finite Element Method	4	-	-	3	4	80	20	100	40	10	–	–	–	–
2	2SFSE2	Advanced Design of Steel Structures	4	-	-	4	4	80	20	100	40	10	–	–	–	–
3	2SFSE3	Theory of Plates and Shells	4	-	-	3	4	80	20	100	40	10	–	–	–	–
4	2SFSE4	Design of Prestressed Concrete structures	4	-	-	4	4	80	20	100	40	10	–	–	–	–
5	2SFSE5	Elective*	4	-	-	4	4	80	20	100	40	10	–	–	–	–
6	2SFSE6	Adv. Design of Steel Structures : Studio	-	-	2	-	1	-	-	-	-	-	25	25	50	25
7	2SFSE7	Design of Prestressed Concrete Structures - Studio	-	-	2	-	1	-	-	-	-	-	25	25	50	25
		TOTAL	20	-	4		**22**			**500**					**100**	

TOTAL : 600

Elective* – (1) Substructures and Foundation Design
(2) Earthquake Resistant Design of Bridges and Dams
(3) Experimental Stress Analysis
(4) Design of Environmental Structures

THIRD SEMESTER

Sr No.	Name Of the subject		Examination Scheme							
			Hours/ Week			Credits	External	Internal	Total Marks	Min Pass Marks
			L	T	P					
1	3SFSE1	Seminar and Dissertation	–	–	6	15		100	100	50
		TOTAL	–	–	6	**15**			100	

FOURTH SEMESTER

Sr No.	Name Of the subject		Examination Scheme							
			Hours/ Week			Credits	External	Internal	Total Marks	Min Pass Marks
			L	T	P					
1	4SFSE1	Seminar and Dissertation	–	–	12	30	200	100	300	150
		TOTAL	–	–	12	**30**	**TOTAL: 300**			

Semester III

Seminar: Seminar to be delivered on the work completed during third semester. 50 internal marks out of 100 will be assessed by a committee consisting of Head Department, Dissertation guide and subject expert appointed by Principal of the College/ head of University Department. Remaining 50 internal marks will be by guide based on performance.

Dissertation: Title of the dissertation work to be submitted to the university on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.)
Title modified / rejected by the sanctioning authority to be conveyed to the concerned within a month.

Semester IV

Seminar: Seminar to be delivered on the work completed during third semester. 50 internal marks out of 100 will be assessed by a committee consisting of Head Department,Dissertation guide and subject expert appointed by Principal of the College/ head of University Department. Remaining 50 internal marks will be by guide based on performance.

Note: Thesis of dissertation must be submitted to the university on or before 30th April (for regular examination) and 30th November (for supplementary examination). Thesis of dissertation work be submitted with late fee to the University up to 31st May (for regular exam) and 31st December (for supplementary exam). The late fee shall be charged as in case of Examination form.

Student should fill the examination form in the beginning of 3rd semester jointly for 3rd and 4th semester. Single mark sheet for 3rd & 4th semester together will be given to the student **T**

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PART-ONE

Thursday, the 19th July, 2012

DIRECTION

No. : 31 /2012 Date : 19 /07/2012

Subject :- Corrigendum to Direction No.31 of 2011

Whereas,the Direction No.31 of 2011 in respect of the Schemes of teaching & examinations of III to VIII/X Semesters as per Credit Grade System of various branches in the faculty of Engineering & Technology is in existence**,**

AND

Whereas, the schemes of teaching and examinations of III to VIII/X Semesters as per Credit Grade System for the branches Civil Engineering, Mechanical Engineering, Production Engineering,Electrical Engineering(Electronics & Power), Electrical & Electronics Engineering, Electrical Engineering (Electrical & Power), Electrical Engineering, Electronics & Telecommunication Engineering, Electronics Engineering, Instrumentation Engineering, Computer Science & Engineering, Computer Engineering, Architecture, Textile Engineering, Chemical Engineering, Chemical Technology(Polymer)(Plastic) Technology, Chemical Technology (Food, Pulp & Paper, Oil & Paint and Petrochemical Technology), Information Technology, Biomedical Engineering were to be implemented from the session 2011-2012 in phase wise manner by the said Direction No. 31 of 2011 as per respective Appendices i.e. AppendixA,B, C,D, E, F, G, H, I,J, K, L,M, N, O, P, Q, R and S,

AND

Whereas, the Academic Council in its meeting held on 05/05/2012 vide Item No. 53 (1) A-R1, C-R-1,D-R1,E-R1,H-R1 and I-R1 has recommended the revised schemes of teaching and examinations of V to VIII/X Semesters as per Credit Grade System for the branches Production Engineering, Electronics & Telecommunications Engineering, Electronics Engineering, Computer Science & Engineering, Computer Engineering,Textile Engineering, Chemical Engineering, Chemical Technology(Polymer)(Plastic) Technology, Chemical Technology (Food, Pulp & Paper, Oil & Paint and Petrochemical Technology),

AND

Whereas, the revised Schemes of examinations as per Credit Grade System for the above mentioned branches in the faculty of Engineering & Technology are to be implemented from the academic session 2012-2013 in phase wise manner ,

AND

Whereas, the Schcmes of teaching and examinations of above mentioned branches as per Credit System in the faculty of Engineering & Technology are required to be regulated by the Regulation,

AND

Whereas, the process of making the Regulation is likely to take some time,

AND

Whereas, the syllabi of above mentioned branches along with the revised schemes of examinations in the faculty of Engineering & Technology are to be made available for the students admitted during the Session 2012-2013,

Now, therefore , I, Dr.Mohan K.Khedkar, Vice-Chancellor of Sant Gadge Baba Amravati University,Amravati in exercise of powers conferred upon me under sub section (8) of Section 14 of the Maharashtra Universities Act,1994, do hereby direct as under : -

1) This Direction shall be called "Corrigendum to Direction No. 31 of 2011",

2) This Direction shall come into force from the date of its issuance.

3) Revised schemes of teaching and examinatiions of V to VIII/X Semesters as per Credit Grade System of the following branches shall be as per respective Appendices appended with this Direction :-

BRANCH	Appendix No.
1)Production Engineering	A
2)Electronics & Telecommunications Engineering	B
3)Electronics Engineering	C
4)Computer Science & Engineering	D
5)Computer Engineering	E
6)Textile Engineering	F
7)Chemical Engineering	G
8)Chemical Technology(Polymer)(Plastic)Technology	H
9)Chemical Technology (Food, Pulp & Paper,Oil & Paint and Petrochemical Technology)	I

Sd/-
Date :- 19 /07/2012 (Mohan K.Khedkar)
Vice Chancellor

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FOUR YEAR DEGREE COURSE
B.E. PRODUCTION ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)

Appendix - A

FIFTH SEMESTER

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME THEORY DURATION OF PAPER (HRS)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5PE01	DESIGN OF MACHINE ELEMENT	4	1	-	5	5	4	80	20	100	40	-	-	-	-
02	5PE02	TOOL ENGINEERING - I	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	5PE03	MATERIAL HANDLING SYSTEMS	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	5PE04	CONTROL SYSTEMS ENGINEERING	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	5PE05	FREE ELECTIVE - I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	5PE06	COMMUNICATION SKILLS	2	-	-	2	2	2	50	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	5PE07	DESIGN OF MACHINE ELEMENT - I Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	5PE08	TOOL ENGINEERING - I Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	5PE09	COMMUNICATION SKILLS - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	5PE10	COMPUTER APPLICATIONS IN PRODUCTION ENGINEERING - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
		TOTAL	19	3	8	30	27				550				200	
															TOTAL MARKS	750

FREE ELECTIVE - I

01 INDUSTRIAL ENGINEERING

02 INDUSTRIAL SAFETY / MANAGEMENT

SIXTH SEMESTER

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME THEORY DURATION OF PAPER (HRS)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	6PE01	TOOL ENGINEERING - II	4	1	-	5	5	3	80	20	100	40	-	-	-	-
02	6PE02	METROLOGY & QUALITY CONTROL	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	6PE03	MACHINE TOOL DESIGN	4	1	-	5	5	3	80	20	100	40	-	-	-	-
04	6PE04	WORK STUDY	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	6PE05	FREE ELECTIVE - II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	6PE06	TOOL ENGINEERING - II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	6PE07	METROLOGY & QUALITY CONTROL - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	6PE08	MACHINE TOOL DESIGN - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	6PE09	MINOR PROJECT (MACHINE SHOP PRACTICE)	-	-	3	3	3	-	-	-	-	-	25	25	50	25
		TOTAL	18	3	9	30	27				500				200	
															TOTAL MARKS	700

FREE ELECTIVE - II

01 INDUSTRIAL AUTOMATION

02 ENTREPRENEURSHIP DEVELOPMENT & ENGINEERING ECONOMICS

Note: Students will have to opt Free Elective from other courses of their College / Institute / University Department.

FOUR YEAR DEGREE COURSE
B.E. PRODUCTION ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEVENTH 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 ASSESMENT	TOTAL	MIN PASSING MARKS	PRACTICAL MAX MARKS EXTERNAL	MAX MARKS INTERNAL	TOTAL	MIN PASSING MARKS
THEORY																
1	[illegible]	PRODUCTION PLANNING & CONTROL	3	1		4	4	3	80	20	100	40	-	-	-	-
2	[illegible]	COMPUTER AIDED DESIGN & MANUFACTURING	3	1		4	4	3	80	20	100	40	-	-	-	-
3	[illegible]	TQM, SUPPLY CHAIN MANAGEMENT AND ERP	3	1		4	4	3	80	20	100	40	-	-	-	-
4	[illegible]	PROFESSIONAL ELECTIVE - I	3			3	3	3	80	20	100	40	-	-	-	-
5	[illegible]	OPEN ELECTIVE - I	3			3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
1	[illegible]	COMPUTER AIDED DESIGN & MANUFACTURING LAB			2	2	1						25	25	50	25
2	[illegible]	PROFESSIONAL ELECTIVE - I LAB			2	2	1						25	25	50	25
3	[illegible]	OPEN ELECTIVE - I LAB			2	2	1						25	25	50	25
4	[illegible]	INDUSTRIAL TRAINING			2	2	1							50	50	25
5	[illegible]	PROJECT SEMINAR			2	2	1							50	50	25
		TOTAL	15	3	8	26	21				500				250	

TOTAL MARKS 750

ELECTIVE - I

01 MECHATRONICS
02 INDUSTRIAL ROBOTICS
03 FLEXIBLE MANUFACTURING SYSTEM
04 ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEM

ELECTIVE - II

01 LOW COST AUTOMATION
02 VALVANCE TOOL AND DIE DESIGN
03 ADVANCE WELDING TECHNOLOGY
04 FINITE ELEMENT ANALYSIS

EIGHTH 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 ASSESMENT	TOTAL	MIN PASSING MARKS	PRACTICAL MAX MARKS EXTERNAL	MAX MARKS INTERNAL	TOTAL	MIN PASSING MARKS
THEORY																
01	[illegible]	PROFESSIONAL ELECTIVE - III	3			3	3	3	80	20	100	40	-	-	-	-
02	[illegible]	PROJECT ENGINEERING	3			3	3	3	80	20	100	40	-	-	-	-
03	[illegible]	PROFESSIONAL ELECTIVE - IV	3			3	3	3	80	20	100	40	-	-	-	-
04	[illegible]	OPERATIONS RESEARCH	3			3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
01	[illegible]	PROFESSIONAL ELECTIVE - III LAB			2	2	1						25	25	50	25
02	[illegible]	PROFESSIONAL ELECTIVE - IV LAB			2	2	1						25	25	50	25
03	[illegible]	OPERATIONS RESEARCH - PROJECT LAB			2	2	1						25	25	50	25
04	[illegible]	PROJECT & VIVA-VOCE			12	12	12							100	100	50
		TOTAL	12		18	30	26				500				250	

TOTAL MARKS 750

ELECTIVE - III

01 ADVANCE PRODUCTIVITY TECHNIQUES
02 FINANCIAL MANAGEMENT & COST CONTROL
03 MATERIALS AND LOGISTIC MANAGEMENT
04 MARKETING AND SALES MANAGEMENT

ELECTIVE - IV

01 COMPUTER INTEGRETED MANUFACTURING
02 PRODUCT DESIGN FOR MANUFACTURING & ASSEMBLY
03 PRODUCT LIFECYCLE MANAGEMENT
04 ERGONOMICS IN PRODUCT DESIGN & MANUFACTURING

Appendix-B

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

Semester : Fifth

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	MAX. MARKS COLLEGE	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	30	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

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 & Telecommunication Engineering
Credit Grade System

Semester : Seventh

Sr. No.	Subject Code		TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME DURATION OF PAPER (Hr.)	THEORY MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMEN	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	MAX. MARKS 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			4	4	2	–	–	–	–	–	25	25	50	25
08	7XT8	Project and Seminar				2	4	–	–	–	–	–		50	50	25
		TOTAL	16	2	6	26	25				400				200	
														TOTAL	600	

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

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	
														TOTAL	650	

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

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

Appendix-C

Semester : Fifth

Sr. No.	Subject Code	Subject	TEACHING SCHEME: Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME: THEORY DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXNERNAL	PRACTICAL MAX. MARKS INTERNAL	PRACTICAL TOTAL	PRACTICAL MIN. PASSING MARKS
THEORY																
01	5XN1	Electronic Devices & Circuits-II	4	1		5	5	3	80	20	100	40	_	_	_	_
02	5XN2	Power Electronics	4			4	4	3	80	20	100	40	_	_	_	_
03	5XN3	Control System Engineering	4	1		5	5	3	80	20	100	40	_	_	_	_
04	5XN4	Communication Engineering-II	4			4	4	3	80	20	100	40	_	_	_	_
05	5FEXN5	Free Elective- I	4			4	4	3	80	20	100	40	_	_	_	_
06	5XN6	Communication Skills	2			2	2	2	40	10	50	20				
		Free Elective - I : 1. Consumer Electronics 2. Fibre Optics														
PRACTICALS / DRAWING / DESIGN																
07	5XN7	Electronic Devices & Circuits-II Lab			2	2	1	_	_	_	_	_	25	25	50	25
08	5XN8	Power Electronics Lab			2	2	1	_	_	_	_	_	25	25	50	25
09	5XN9	Communication Engineering-II Lab			2	2	1	_	_	_	_	_	25	25	50	25
10	5XN10	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: Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	EXAMINATION SCHEME: THEORY DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXNERNAL	PRACTICAL MAX. MARKS INTERNAL	PRACTICAL TOTAL	PRACTICAL MIN. PASSING MARKS
THEORY																
01	6XN1	Digital Integrated Circuits	4			4	4	3	80	20	100	40	_	_	_	_
02	6XN2	Linear Integrated Circuits	4	1		5	5	3	80	20	100	40	_	_	_	_
03	6XN3	Introduction to Microprocessors	4	1		5	5	3	80	20	100	40	_	_	_	_
04	6XN4	Radar & Television Engineering	4			4	4	3	80	20	100	40	_	_	_	_
05	6FEXN5	Free Elective -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	6XN6	Digital Integrated Circuits Lab			2	2	1	_	_	_	_	_	25	25	50	25
07	6XN7	Linear Integrated Circuits Lab			2	2	1	_	_	_	_	_	25	25	50	25
08	6XN8	Introduction to Microprocessors Lab			2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	20	2	6	28	25				500				150	
														TOTAL	650	

Note : Students will have to opt free elective offered from other courses of thier College/Insititute/University Department

Four Year Degree Course in Bachelor of Engineering Branch : Electronics Engineering

Credit Grade System

Semester Pattern

Semester : Seventh

Sr. No.	Subject Code		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 EXNERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	7XN1	Computer Organization	4			4	4	3	80	20	100	40	_	_	_	_
02	7XN2	Microcontroller and Applications	4	1		5	5	3	80	20	100	40	_	_	_	_
03	7XN3	Digital Signal Processing	4	1		5	5	3	80	20	100	40	_	_	_	_
04	7XN4	Professional Elective-I	4			4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	7XN5	Microcontroller and Applications Lab			2	2	1	_	_	_	_	_	25	25	50	25
06	7XN6	Digital Signal Processing Lab			2	2	1	_	_	_	_	_	25	25	50	25
07	7XN7	Simulation Lab			2	2	1	_	_	_	_	_	25	25	50	25
08	7XN8	Project and Seminar				2	4					_	_	50	50	25
		TOTAL	16	2	6	26	25				400				200	

Professional Elective-I: 1. Nanoelectronics 2. Mechatronics 3. Digital Instrumentation 4. Integrated Optics & Photonic Systems 5. Wireless Communication 6. Speech Processing TOTAL 600

Semester : Eighth

THEORY																
01	8XN1	UHF and Microwaves	4	1		5	5	3	80	20	100	40	_	_	_	_
02	8XN2	Electronics Circuit Design	4	1		5	5	3	80	20	100	40	_	_	_	_
03	8XN3	VLSI Design	4			4	4	3	80	20	100	40	_	_	_	_
04	8XN4	Professional Elective-II	4			4	4	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8XN5	UHF & Microwaves Lab			2	2	1	_	_	_	_	_	25	25	50	25
06	8XN6	Electronics Circuit Design and VLSI Design Lab			2	2	1	_	_	_	_	_	25	25	50	25
07	8XN7	Project and Seminar				6	12						75	75	150	75
		TOTAL	16	2	4	28	32				400				250	

Professional Elective-II: 1. System on Chip 2. Digital Signal Processors 3. Artificial Intelligence & Robotics 4. Digital Image Processing 5. Digital Communication 6. Smart Sensors & Networks **TOTAL 650**

Appendix-D

Four Year Degree Course in Bachelor of Engineering
Branch : Computer Science & Engineering
Semeter Pattern (Credit Grade System)

Semester :FIFTH

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	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

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	PRACTICAL MAX. MARKS EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
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 Elective II* (i) Database Management Systems (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
Semeter Pattern (Credit Grade System)

Semester SEVENTH

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	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	8KS09	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

Appendix-B

Four Year Degree Course in Bachelor of Engineering
Branch : Computer Engineering
Semeter Pattern (Credit Grade System)

Semester :FIFTH

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	5KE01	Data Communication	4	–	–	4	4	3	80	20	100	40	–	–	–	–
02	5KE02	File Structures & Data Processing	4	1	–	5	5	3	80	20	100	40	–	–	–	–
03	5KE03	System Software	4	–	–	4	4	3	80	20	100	40	–	–	–	–
04	5KE04	Switching Theory & Logic Design	4	1	–	5	5	3	80	20	100	40	–	–	–	–
05	5FEKE05	Free Elective I*	3	–	–	3	3	3	80	20	100	40	–	–	–	–
06	5KE06	Communication Skills	2	–	–	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	5KE07	System Software Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	5KE08	Switching Theory & Logic Design Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	5KE09	Communication Skills Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	21	2	6	29	26				550				150	
															TOTAL	700

Free Elective I* (i) Web Technologies (ii) Object Oriented Programming

Semester :SIXTH

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	6KE01	Operating Systems	4	1	–	5	5	3	80	20	100	40	–	–	–	–
02	6KE02	Database Systems	4	–	–	4	4	3	80	20	100	40	–	–	–	–
03	6KE03	Computing Resources Management	4	–	–	4	4	3	80	20	100	40	–	–	–	–
04	6KE04	Computer Architecture	3	1	–	4	4	3	80	20	100	40	–	–	–	–
05	6FEKE05	Free Elective II*	3	–	–	3	3	3	80	20	100	40				
06	6KE06	Professional Ethics	2	–	–	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	6KE07	Operating Systems Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	6KE08	Database Systems Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	6KE09	Computer Lab-II (Hardware Lab)	1	–	2	3	2	–	–	–	–	–	25	25	50	25
		TOTAL	21	2	6	29	26				550				150	
															TOTAL	700

Free Elective II* (i) Java Programming (ii) Expert 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 : Computer Engineering
Semeter Pattern (Credit Grade System)

Semester :SEVENTH

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	7KE01	Signals & Systems	3	1	–	4	4	3	80	20	100	40	–	–	–	–
02	7KE02	Computer Network	4	–	–	4	4	3	80	20	100	40	–	–	–	–
03	7KE03	Microprocessors & Interfacing	3	1	–	4	4	3	80	20	100	40	–	–	–	–
04	7KE04	Mobile Computing	4	–	–	4	4	3	80	20	100	40	–	–	–	–
05	7KE05	Professional Elective I*	4	–	–	4	4	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	7KE06	Computer Network Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
07	7KE07	Microprocessors & Interfacing Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	7KE08	Mobile Computing Lab	–	–	2	2	1	–	–	–	–	–	–	50	50	25
09	8KE09	Project & Seminar			2	2	4	–	–	–	–	–	–	–	–	–
		TOTAL	18	2	8	28	27				500				150	
														TOTAL	650	

Professional Elective I* (i) Artificial Intelligence (ii) Computer Graphics (iii) Design & Analysis of Algorithms (iv) Human Computer Interaction

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	8KE01	Digital Signal Processing	3	–	–	3	3	3	80	20	100	40	–	–	–	–
02	8KE02	Embedded Systems	3	–	–	3	3	3	80	20	100	40	–	–	–	–
03	8KE03	Software Engineering	3	–	–	3	3	3	80	20	100	40	–	–	–	–
04	8KE04	Professional Elective II*	4	–	–	4	4	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
05	8KE05	Digital Signal Processing Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
06	8KE06	Embedded Systems Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
07	8KE07	Project & Seminar	–	–	6	6	12	–	–	–	–	–	75	75	150	75
		TOTAL	13	–	10	23	27				400				250	
														TOTAL	650	

Professional Elective II* (i) Network Security (ii) Multimedia Technologies (iii) Expert System Design (iv) Soft Computing

Four Year Degree Course in
Bachelor of Textile Engineering
Semeter Pattern (Credit Grade System)

Appendix - F

Semester : Fifth

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	5 TX 01	Yarn Manufacturing -III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
02	5 TX 02	Fabric Manufacturing-III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
03	5 TX 03	Textile Testing-I	3	1	–	4	4	3	80	20	100	40	–	–	–	–
04	5 TX 04	Textile Costing and Economics	3	1	–	4	4	3	80	20	100	40	–	–	–	–
05	5FETX05	Free Elective-I	3	–	–	3	3	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	5 TX 06	Minor Project-I	–	–	2	2	2	–	–	–	–	–	–	50	50	25
07	5 TX 07	Yarn Manufacturing -III- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	5 TX 08	Fabric Manufacturing-III- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	5 TX 09	Textile Testing-I- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	15	4	8	27	24				500				200	
														TOTAL	700	

Free Elective-I:- (i) Technical Textiles (ii) Fashion & Clothing Science

Semester : Sixth

THEORY																
01	6 TX 01	Fabric Structure	3	1	–	4	4	3	80	20	100	40	–	–	–	–
02	6 TX 02	Advanced Yarn Manufacturing Technology	3	1	–	4	4	3	80	20	100	40	–	–	–	–
03	6 TX 03	Textile Testing-II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
04	6 TX 04	Apparel Merchandising	3	–	–	3	3	3	80	20	100	40	–	–	–	–
05	6FETX05	Free Elective-II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
06	6 TX 06	Communication Skill	2	–	–	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	6 TX 07	Minor Project-II	–	–	2	2	4	–	–	–	–	–	25	25	50	25
08	6 TX 08	Fabric Structure- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	6 TX 09	Advanced Yarn Manufacturing Technology- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
10	6 TX 10	Textile Testing-II- Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
11	6 TX 11	Communication Skill-Lab.	–	–	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	17	2	10	29	27				550				250	
														TOTAL	800	

Free Elective-II:- (i) Computer Aided Textile & Fashion designing (ii) Fashion Technology

* Notes :

1) Student has to undergo inplant training for 15 days in any textile manufacturing unit

2) : 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 Textile Engineering
Semeter Pattern (Credit Grade System)

Semester : Seventh

Sr. No.	Subject Code		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	7 TX 01	Textile Mathematics	3	1	_	4	4	3	80	20	100	40	_	_	_	_
02	7 TX 02	Textile Testing-III	3	1	_	4	4	3	80	20	100	40	_	_	_	_
03	7 TX 03	Chemical Processing-I	3	1	_	4	4	3	80	20	100	40	_	_	_	_
04	7 TX 04	Textile Mill Management	3	1	_	4	4	3	80	20	100	40	_	_	_	_
05	7 TX 05	Professional Elective-I	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
06	7 TX 06	Project and Seminar	_	_	2	2	4	_	_	_	_	_	25	25	50	25
07	7 TX 07	Textile Testing-III- Lab.	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	7 TX 08	Chemical Processing-I- Lab.	_	_	2	2	1	_	_	_	_	_	25	25	50	25
		TOTAL	15	4	6	25	25				500				150	
															TOTAL	650

Professional Elective-I : (i) Advanced Nonwoven Technology (ii) Advanced Knitting Technology

Semester : Eighth

Sr. No.	Subject Code		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	8 TX 01	Process Control in Textile Manufacturing	3	_	_	3	3	3	80	20	100	40	_	_	_	_
02	8 TX 02	Advanced Fabric Manufacturing Technology	3	1	_	4	4	3	80	20	100	40	_	_	_	_
03	8 TX 03	Chemical Processing-II	3	_	_	3	3	3	80	20	100	40	_	_	_	_
04	8 TX 04	Professional Elective-II	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8 TX 05	Project and Seminar	_	_	6	6	12	_	_	_	_	_	25	25	50	25
06	8 TX 06	Advanced Weaving Technology-Lab.	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	8 TX 07	Chemical Processing-II- Lab.	_	_	2	2	1	_	_	_	_	_	75	75	150	75
		TOTAL	12	1	10	23	27				400				250	
															TOTAL	650

Professional Elective-II : (i) Technical Textiles (ii) New Fibre Science

Four Year Degree Course in Bachelor of Technology
Branch : Chemical Engineering
Semester Pattern (Credit Grade System)

Appendix-G

Semester : Fifth

Sr. No.	Subject Code	Subject	TEACHING SCHEME: HOURS / WEEK Lecture	Tutorial	PRD	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	5CH01	Heat Transfer	4	–	–	4	4	3	80	20	100	40	–	–	–	–
02	5CH02	Chemical Engineering Process-I (Inorganic Chemical Technology)	4	–	–	4	4	3	80	20	100	40	–	–	–	–
03	5CH03	Economics & Management	4	–	–	4	4	3	80	20	100	40	–	–	–	–
04	5CH04	Material Science & Engineering	3	1	–	4	4	3	80	20	100	40	–	–	–	–
05	5FECH05	Free Elective-I	3	–	–	3	3	3	80	20	100	40				
06	5CH06	Communication Skill	2	–	–	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	5CH07	Heat Transfer-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	5CH08	Material Science & Engineering-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	5CH09	Communication Skill-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	20	1	6	27	24				550				150	
															TOTAL	700

Free Elective-I 1) Air Pollution Control 2) Risk & Safety Management in Industries.

Semester : Sixth

THEORY																
01	6CH01	Chemical Engineering Operation - II (Mass Transfer - I)	3	1	–	4	4	3	80	20	100	40	–	–	–	–
02	6CH02	Chemical Engineering Process-II (Organic Chemical Technology)	4	–	–	4	4	3	80	20	100	40	–	–	–	–
03	6CH03	Computer Programming & Applications	3	1	–	4	4	3	80	20	100	40	–	–	–	–
04	6CH04	Process Equipment Design & Drawing	4	–	–	4	4	3	80	20	100	40	–	–	–	–
05	6FECH05	Free Elective II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	6CH06	Chemical Engineering Operation - II (Mass Transfer - I)-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
07	6CH07	Computer Programming & Applications-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	6CH08	Minor Project	–	–	2	2	4	–	–	–	–	–	25	25	50	25
		TOTAL	17	2	6	25	25				500				150	
															TOTAL	650

Free Elective-I 1) Renewabel Energy Sources 2) Water Technology

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 Technology
Branch : Chemical Engineering
Semester Pattern (Credit Grade System)

Semester : Seventh

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	7CH01	Chemical Engineering Operations-III (Mass Transfer-II)	3	1	_	4	4	3	80	20	100	40	_	_	_	_
02	7CH02	Chemical Reaction Engineering-I	3	1	_	4	4	3	80	20	100	40	_	_	_	_
03	7CH03	Process Dynamics & Control	3	1	_	4	4	3	80	20	100	40	_	_	_	_
04	7CH04	Professional Elective-I	3	_	_	3	3	3	80	20	100	40	_	_	_	_
05	7CH05	Plant Design & Project Engineering	3	_	_	3	3	3	80	20	100	40				
PRACTICALS / DRAWING / DESIGN																
06	7CH06	Chemical Engineering Operations-III (Mass Transfer-II)-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
07	7CH07	Chemical Reaction Engineering-I-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
08	7CH08	Process Dynamics & Control-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
09	7CH09	Professional Elective-I-Lab	_	_	2	2	1						25	25	50	25
10	7CH10	Industrial Training	_	_	_	_	1						0	50	50	25
11	7CH11	Project & Seminar	_	_	2	2	4						0	50	50	25
		TOTAL	15	3	10	28	27				500				300	
															TOTAL	800

PROFESSIONAL ELECTIVE-I 7CH04 (1) INDUSTRIAL WASTE TREATMENT, 7CH04 (2) NEW SEPARATION TECHNIQUES, 7CH04 (3) OPTIMIZATION OF CHEMICAL PROCESSES, 7CH04 (4) POLYMER SCIENCE AND TECHNOLOGY

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	8CH01	Transport Phenomena	3	1	_	4	4	3	80	20	100	40	_	_	_	_
02	8CH02	Chemical Reaction Engineering-II	3	1	_	4	4	3	80	20	100	40	_	_	_	_
03	8CH03	System Modelling	3	_	_	3	3	3	80	20	100	40	_	_	_	_
04	8CH04	Professional Elective-II	3	_	_	3	3	3	80	20	100	40	_	_	_	_
PRACTICALS / DRAWING / DESIGN																
05	8CH05	Professional Elective-II-Lab	_	_	2	2	1	_	_	_	_	_	25	25	50	25
06	8CH06	Project & Seminar	_	_	6	6	12	_	_	_	_	_	75	75	150	75
		TOTAL	12	2	8	22	27				400				200	
															TOTAL	600

PROFESSIONAL ELECTIVE-II 8CH04 (1) PETROLEUM PROCESSING TECHNOLOGY, 8CH04 (2) CORROSION ENGINEERING, 8CH04 (3) BIOCHEMICAL ENGINEERING, 8CH04 (4) PETROLEUM REFINERY ENGINEERING, 8CH04 (5) BIO FUELS, 8CH04 (6) INDUSTRIAL PIPING, 8CH04 (7) WINE MAKING, 8CH04 (8) PETROCHEMICAL TECHNOLOGY, 8CH04 (9) ENERGY TECHNOLOGY & MANAGEMENT, 8CH04 (10) ENERGY & ENVIRONMENT.

FOUR YEAR DEGREE COURSE
B.TECH. POLYMER (PLASTIC) TECHNOLOGY
SEMESTER PATTERN (CREDIT GRADE SYSTEM)

Appendix-H

FIFTH 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 ASSESMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5PP01	HEAT TRANSFER	4	0	0	4	4	3	80	20	100	40	–	–	–	–
02	5PP02	POLYMER MATERIALS	4	0	0	4	4	3	80	20	100	40	–	–	–	–
03	5PP03	ENGINEERING PLASTICS & SPECIALTY POLYMERS	3	1	0	4	4	3	80	20	100	40	–	–	–	–
04	5PP04	INSTRUMENTATION & CONTROL	3	1	0	4	4	3	80	20	100	40	–	–	–	–
05	5PP05	FREE ELECTIVE - I	3	0	0	3	3	3	80	20	100	40	–	–	–	–
06	5PP06	COMMUNICATION SKILLS	2	0	0	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	5PP07	HEAT TRANSFER - Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
08	5PP08	POLYMER MATERIALS - Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
09	5PP09	INSTRUMENTATION & CONTROL-Lab	0	0	2	2	1									
10	5PP10	COMMUNICATION SKILLS - Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	19	2	8	29	25				550				100	
														TOTAL		650

FREE ELECTIVE- I 1) Polymer Science & Technology 2) Rubber Technology

SIXTH 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 ASSESMENT	TOTAL	MIN. PASSING MARKS	PRACTICAL MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	6PP01	CHEMICAL ENGINEERING OPERATION-II (MASS TRANSFER)	3	1	0	4	4	3	80	20	100	40	–	–	–	–
02	6PP02	ELASTOMER TECHNOLOGY	3	1	0	4	4	3	80	20	100	40	–	–	–	–
03	6PP03	COMPUTER PROGRAMMING & APPLICATIONS	3	1	0	4	4	3	80	20	100	40	–	–	–	–
04	6PP04	POLYMER ENGINEERING THERMODYNAMICS	3	0	0	3	3	3	80	20	100	40	–	–	–	–
05	6PP05	FREE ELECTIVE - II	3	0	0	3	3	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	6PP06	CHEMICAL ENGINEERING OPERATION-II (MASS TRANSFER) - Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
07	6PP07	ELASTOMER TECHNOLOGY - Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
08	6PP08	COMPUTER PROGRAMMING & APPLICATIONS -Lab	0	0	2	2	1									
09	6PP09	MINOR PROJECT	0	0	2	2	4	–	–	–	–	–	25	25	50	25
		TOTAL	15	3	8	26	25				500				150	
														TOTAL		650

FREE ELECTIVE -II 1) PACKAGING TECHNOLOGY 2) COMPOSITE TECHNOLOGY

FOUR YEAR DEGREE COURSE
B.TECH. POLYMER (PLASTIC) TECHNOLOGY
SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEVENTH SEMESTER

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	PPD	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	7PP01	POLYMER PROCESSING-I	3	1	0	4	4	3	80	20	100	40	–	–	–	–
02	7PP02	POLYMER REACTION ENGINEERING	3	1	0	4	4	3	80	20	100	40	–	–	–	–
03	7PP03	STRUCTURE PROPERTY RELATIONSHIP IN POLYMERS	4	0	0	4	4	3	80	20	100	40	–	–	–	–
04	7PP04	PROFESSIONAL ELECTIVE - I	3	0	0	3	3	3	80	20	100	40	–	–	–	–
05	7PP05	PLANT DESIGN & PROJECT ENGINEERING	3	0	0	3	3	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	7PP06	POLYMER PROCESSING-I -Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
07	7PP07	POLYMER REACTION ENGINEERING -Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
08	7PP08	PROFESSIONAL ELECTIVE - I -Lab	0	0	2	2	1	–	–	–	–	–	25	25	50	25
09	7PP09	INDUSTRIAL TRAINING	0	0	0	0	2	–	–	–	–	–	–	50	50	25
10	7PP10	PROJECT & SEMINAR	0	0	2	2	4	–	–	–	–	–	–	50	50	25
		TOTAL	16	2	8	26	27				500				250	
														TOTAL		750

PROFESSIONAL ELECTIVE - I

1 POLYMER BLENDS & COMPOSITES

2 PACKAGING TECHNOLOGY

EIGHTH SEMESTER

Sr. No.	Subject Code	Subject	TEACHING SCHEME HOURS / WEEK Lecture	Tutorial	PPD	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	8PP01	POLYMER PROCESSING -II	3	0	0	3	3	3	80	20	100	40	–	–	–	–
02	8PP02	POLYMER VISCOELASTICITY & RHEOLOGY	3	0	0	3	3	3	80	20	100	40	–	–	–	–
03	8PP03	PROFESSIONAL ELECTIVE-II	3	0	0	3	3	3	80	20	100	40	–	–	–	–
04	8PP04	MOLD DESIGN FOR PLASTICS	3	0	0	3	3	4	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
05	8PP05	POLYMER PROCESSING -II	0	0	2	2	1	–	–	–	–	–	25	25	50	25
06	8PP06	PROFESSIONAL ELECTIVE-II	0	0	2	2	1	–	–	–	–	–	25	25	50	25
07	8PP07	MOLD DESIGN FOR PLASTICS	0	0	2	2	1	–	–	–	–	–	–	50	50	25
08	8PP08	PROJECT & SEMINAR	0	0	6	6	12	–	–	–	–	–	75	75	150	75
		TOTAL	12	0	12	24	27				400				300	
														TOTAL		700

PROFESSIONAL ELECTIVE-II

1 TESTING & PRODUCT DESIGN FOR PLASTICS

2 SURFACE COATING TECHNOLOGY

Four Year Degree Course in Bachelor of Technology
Branchs : Food, Pulp & Paper, Oil & Paint and Petrochemical Technology
Semeter Pattern (Credit Grade System)

Appendix-I

Semester : Fifth

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	MAX MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5 CT 01	Heat Transfer	3	–	–	3	3	3	80	20	100	40	–	–	–	–
02	5 CT 02	Mechanical Operations	3	–	–	3	3	3	80	20	100	40	–	–	–	–
03	5 CT 03	Chemical Engineering Thermodynamics-II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
04	5 FT 04	Food Technology - II	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	5 PT 04	Pulp & Paper Technology -II	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	5 OT 04	Oil & Paint Technoloogy -II	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	5 PC 04	Petrochemical Technology - II	3	1	–	4	4	3	80	20	100	40	–	–	–	–
05	5 FECT 05	Free Elective - I	3	–	–	3	3	3	80	20	100	40	–	–	–	–
06	5 CT 06	Communication Skills	2	–	–	2	2	2	40	10	50	20	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
07	5 CT 07	Heat Transfer -Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	5 CT 08	Mechanical Operation-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	5 CT 09	Chemical Engineering Thermodynamics-II-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
10	5 FT 10	Food Technology - II-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	5 PT 10	Pulp & Paper Technology -II-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	5 OT 10	Oil & Paint Technoloogy -II-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	5 PC 10	Petrochemical Technology - II-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
11	5 CT 11	Communication Skills-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
		TOTAL	17	1	12	30	25				550				200	
														TOTAL	750	

Free Elective - I : 1) Environmental Impact Risk Assessment and Management 2) Process Equipment - Design & Drawing - Lab

Semester : Sixth

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	MAX MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	6 CT 01	Chemical Technology	4	–	–	4	4	3	80	20	100	40	–	–	–	–
02	6 CT 02	Computer Programming & Applications	3	1	–	4	4	3	80	20	100	40	–	–	–	–
03	6 CT 03	Instrumentation & Control	4	–	–	4	4	3	80	20	100	40	–	–	–	–
04	6 FT 04	Food Technology -III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	6 PT 04	Pulp & Paper Technology -III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	6 OT 04	Oil & Paint Technoloogy -III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	6 PC 04	Petrochemical Technology -III	3	1	–	4	4	3	80	20	100	40	–	–	–	–
05	6 FECT 05	Free Elective - II	3	1	–	4	4	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	6 CT 06	Process Equipment Design & Drawing-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
07	6 CT 07	Instrumentation & Control-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	6 CT 08	Computer Programming & Application-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
09	6 CT 09	Minor Project	–	–	2	2	2	–	–	–	–	–	25	25	50	25
		TOTAL	17	3	8	28	25				500				200	
														TOTAL	700	

Free Elective - II : 1) Introduction to Membrane Technology 2) Renewable Energy Sources

s/ Chemical Technology

, Year Degree Course in Bachelor of Technology
Branches : Food, Pulp & Paper, Oil & Paint and Petrochemical Technology
Semeter Pattern (Credit Grade System)

Semester : Seventh

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	MAX. MARKS INTERNAL	TOTAL	MIN PASSING MARKS
THEORY																
01	7 CT 01	Mass Transfer	4	–	–	4	4	3	80	20	100	40	–	–	–	–
02	7 CT 02	Chemical Reaction Engineering -I	3	–	–	3	3	3	80	20	100	40	–	–	–	–
03	7 CT 03	Food Technology - IV	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 PT 03	Pulp & Paper Technology - IV	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 CT 03	Oil & Paint Technoloogy - IV	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 FT 03	Petrochemical Technology - IV	3	1	–	4	4	3	80	20	100	40	–	–	–	–
04	7 CT 04	Professional Elective - I	3	–	–	3	3	3	80	20	100	40	–	–	–	–
05	7 FT 05	Food Technology -V	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 PT 05	Pulp & Paper Technology -V	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 OT 05	Oil & Paint Technoloogy -V	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	7 PC 05	Petrochemical Technology -V	3	1	–	4	4	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
06	7 CT 06	Mass Transfer -Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
07	7 CT 07	Chemical Reaction Engineering I-Lab	–	–	2	2	1	–	–	–	–	–	25	25	50	25
08	7 FT 08	Food Technology - IV-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	7 PT 08	Pulp & Paper Technology - IV-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	7 OT 08	Oil & Paint Technoloogy - IV-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	7 PC 08	Petrochemical Technology - IV-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
09	7 CT 09	Professional Elective - I-Lab	–	–	2	2	1						25	25	50	25
10	7 CT 10	Project & Seminar	–	–	2	2	4	–	–	–	–	–	0	50	50	25
		TOTAL	16	2	12	30	27				500				250	
														TOTAL		750

Professional Elective - I 1) Corrosion Engg 2) ~~Polymer Science & Engg~~ 3) ~~Manmade Fibre Tech~~ Petroleum Processing Fuel Tech. 4) Industrial Waste Treatment

Semester : Eighth

01	8 FT 01	Food Technology -VI	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	8 PT 01	Pulp & Paper Technology -VI	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	8 OT 01	Oil & Paint Technoloogy -VI	3	1	–	4	4	3	80	20	100	40	–	–	–	–
	8 PC 01	Petrochemical Technology -VI	3	1	–	4	4	3	80	20	100	40	–	–	–	–
02	8 CT 02	Chemical Reaction Engineering -II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
03	8 CT 03	Plant Desgin & Project Engineering	3	–	–	3	3	3	80	20	100	40	–	–	–	–
04	8 CT 04	Professional Elective - II	3	–	–	3	3	3	80	20	100	40	–	–	–	–
PRACTICALS / DRAWING / DESIGN																
05	8 FT 05	Food Technology -VI-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	8 PT 05	Pulp & Paper Technology -VI-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	8 OT 05	Oil & Paint Technoloogy -VI-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
	8 PC 05	Petrochemical Technology-VI-Lab	–	–	4	4	2	–	–	–	–	–	25	25	50	25
06	8 CT 06	Project & Seminar	–	–	6	6	12	–	–	–	–	–	75	75	150	75
		TOTAL	12	1	10	23	27				400				200	
															TOTAL	600

Professional Elective - II 1) Biochemical Engg. 2) Petroleum Processing Engg 3) Fuel Tech.