TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY

Approved by AICTE & Affiliated to Rajasthan Technical University

www. technonjr.org

NJR Knowledge Campus, Plot-SPL-T, Bhamashah (RIICO) Industrial Area, Kaladwas, Udaipur - 313003 (Raj.)
Tel. : +91 2942650214-17 Fax :+91 2942650218, Email : technonjr@gmail.com, director@technonjr.org

Date: 18-06-2023

TO WHOMSOEVER IT MAY CONCERN

Metric ID: 1.2.1	Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented 1.2.1.1. Number of Programmes in which CBCS/ Elective course system implemented

Description

(a) Percentage of revision in each program is attached in Appendix-I.
(b) Details of program year wise is attached in Appendix-II.
(c) Program which was discontinued/merger shown in red colour and AICTE Extension of Approval letters also attached.
(d) Relevant data highlighted in Red/Yellow Colour.

The list of programmes in which CBCS / elective course system has been implemented is attached here with. Also List of courses in which CBCS has been implemented is attached in appendix 1.

For Techno India NJR Institute of Technology

(R.S. Vyas)
Director

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementation of CBCS / elective course system	If revision has been carried out in the syllabus during the last 5 years, Percentage of content added or replaced	Link to the relevant document
5	Civil Engineering	2012-13	Yes	2017-18	0%	1. CBCS DOCUMENT FOR ALL PROGRAMS https://iqac.technonjr.org/aqar/2022-23/part-b/1.2.1/
6	Computer Science and Engineering	2008-09	Yes	2017-18	0%	2. UNIVERSITY SYLLABUS OF ALL PROGRAMS https://iqac.technonjr.org/aqar/2022-23/part-b/1.2.1/
7	Electrical Engineering	2013-14	Yes	2017-18	0%	3. ELECTIVE SUBJECTS LIST: https://iqac.technonjr.org/aqar/2022-23/part-b/1.2.1/
9	Electronics and Communication Engineering	2008-09	Yes	2017-18	0%	
13	Mechanical Engineering	2011-12	Yes	2017-18	0%	

APPENDIX - I

Rajasthan Technical University (RTU) revised the syllabus in 2017-18. The comparison chart of old scheme subjects with the new scheme subjects is attached of all the programs.

In all the charts two colour coding has been used. Red highlighted subjects shown removed from the old scheme. New introduced subjects shown in yellow colour.

B. Tech Scheme 2021-22			B. Tech Scheme 2022-23		
Program Name	Course code	Course Name	Program Name	Course code	Course Name
SEMESTER	**I**	**Theory Subject**	**SEMESTER**	**I**	**Theory Subject**
	1FY2-01	Engineering Mathematics-I		1FY2-01	Engineering Mathematics-I
	1FY2-03	Engineering Chemistry		1FY2-03	Engineering Chemistry
	1FY1-04	Communication Skills		1FY1-04	Communication Skills
	1FY3-06	Programming for Problem Solving		1FY3-06	Programming for Problem Solving
	1FY3-09	Basic Civil Engineering		1FY3-09	Basic Civil Engineering
	Practicals & Sessionals			**Practicals & Sessionals**	
	1FY2-21	Engineering Chemistry Lab		1FY2-21	Engineering Chemistry Lab
	1FY1-22	Human Values Activities		1FY1-22	Human Values Activities
Common to all	1FY3-24	Manufacturing Practices Workshop	**Common to all**	1FY3-24	Manufacturing Practices Workshop
	1FY3-27	Basic Civil Engineering Lab		1FY3-27	Basic Civil Engineering Lab
	1FY3-28	Computer Aided Engineering Graphics		1FY3-28	Computer Aided Engineering Graphics
	II	**Theory Subject**		**II**	**Theory Subject**
	2FY2-01	Engineering Mathematics-II		2FY2-01	Engineering Mathematics-II
	2FY2-02	Engineering Physics		2FY2-02	Engineering Physics
	2FY1-05	Human Values		2FY1-05	Human Values
	2FY3-07	Basic Mechanical Engineering		2FY3-07	Basic Mechanical Engineering
	2FY3-08	Basic Electrical Engineering		2FY3-08	Basic Electrical Engineering
	Practicals & Sessionals			**Practicals & Sessionals**	
	2FY2-20	Engineering Physics Lab		2FY2-20	Engineering

					Physics Lab
	2FY1-23	Human Values Activities		2FY1-23	Human Values Activities
	2FY3-25	Manufacturing Practices Workshop		2FY3-25	Manufacturing Practices Workshop
	2FY3-26	Basic Electrical Engineering Lab		2FY3-26	Basic Electrical Engineering Lab
	2FY3-29	Computer Aided Machine Drawing		2FY3-29	Computer Aided Machine Drawing
SEMESTER	**III**	**Theory Subject**	**SEMESTER**	**III**	**Theory Subject**
	3CE2-01	ADVANCE ENGINEERING MATHEMATICS-I		3CE2-01	ADVANCE ENGINEERING MATHEMATICS I
	3CE1-02	TECHNICAL COMMUNICATION		3CE1-02	TECHNICAL COMMUNICATION
	3CE3-04	Engineering Mechanics		3CE3-04	Engineering Mechanics
	3CE4-05	SURVEYING		3CE4-05	SURVEYING
	3CE4-06	FLUID MECHANICS		3CE4-06	FLUID MECHANICS
Civil Engineering	3CE4-07	BUILDING MATERIALS AND CONSTRUCTION	**Civil Engineering**	3CE4-07	BUILDING MATERIALS AND CONSTRUCTION
	3CE4-08	ENGINEERING GEOLOGY		3CE4-08	ENGINEERING GEOLOGY
Practicals & Sessionals			**Practicals & Sessionals**		
	3CE4-21	Surveying Lab		3CE4-21	Surveying Lab
	3CE4-22	Fluid Mechanics Lab		3CE4-22	Fluid Mechanics Lab
	3CE4-23	Computer Aided Civil Engineering Drawing		3CE4-23	Computer Aided Civil Engineering Drawing
	3CE4-24	Civil Engineering Maretials Lab		3CE4-24	Civil Engineering Maretials Lab
	3CE4-25	Geology Lab		3CE4-25	Geology Lab
	3CE7-30	Industrial Training		3CE7-30	Industrial Training
SEMESTER	**IV**	**Theory Subject**	**SEMESTER**	**IV**	**Theory Subject**
	4CE2-01	ADVANCE ENGINEERING MATHEMATICS-II		4CE2-01	ADVANCE ENGINEERING MATHEMATICS II
Civil Engineering	4CE1-03	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	**Civil Engineering**	4CE1-03	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING
	4CE3-04	BASIC ELECTRONICS		4CE3-04	BASIC

		FOR CIVIL ENGINEERING APPLICATIONS			ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS
	4CE4-05	STRENGTH OF MATERIALS		4CE4-05	STRENGTH OF MATERIALS
	4CE4-06	HYDRAULICS ENGINEERING		4CE4-06	HYDRAULICS ENGINEERING
	4CE4-07	BUILDING PLANNING		4CE4-07	BUILDING PLANNING
	4CE4-08	CONCRETE TECHNOLOGY		4CE4-08	CONCRETE TECHNOLOGY
Practicals & Sessionals			**Practicals & Sessionals**		
	4CE4-21	Material Testing Lab		4CE4-21	Material Testing Lab
	4CE4-22	Hydraulics Engineering Lab		4CE4-22	Hydraulics Engineering Lab
	4CE4-23	Building Drawing		4CE4-23	Building Drawing
	4CE4-24	Advanced Surveying Lab		4CE4-24	Advanced Surveying Lab
	4CE4-25	Concrete Lab		4CE4-25	Concrete Lab
SEMESTER	**V**	**Theory Subject**	**SEMESTER**	**V**	**Theory Subject**
Civil Engineering	5CE3-01	CONSTRUCTION TECHNOLOGY AND EQUIPMENT	Civil Engineering	5CE3-01	CONSTRUCTION TECHNOLOGY AND EQUIPMENT
	5CE4-02	STRUCTURE ANALYSIS-I		5CE4-02	STRUCTURE ANALYSIS-I
	5CE4-03	DESIGN OF CONCRETE STRUCTURES		5CE4-03	DESIGN OF CONCRETE STRUCTURES
	5CE4-04	GEOTECHNICAL ENGINEERING		5CE4-04	GEOTECHNICAL ENGINEERING
	5CE4-05	WATER RESOURCE ENGINEERING		5CE4-05	WATER RESOURCE ENGINEERING
	5CE5-13	Town Planning		5CE5-13	Town Planning
	5CE5-14	Repair and Rehabilitation of Structures		5CE5-14	Repair and Rehabilitation of Structures
Practicals & Sessionals			**Practicals & Sessionals**		
	5CE4-21	Concrete Structures Design		5CE4-21	Concrete Structure Design
	5CE4-22	Geotechnical Engineering Lab		5CE4-22	Geotechnical Engineering Lab
	5CE4-23	Water Resource Engineering Design		5CE4-23	Water Resource Engineering Design
	5CE7-30	Industrial Training		5CE7-30	Industrial Training
SEMESTER	**VI**	**Theory Subject**	**SEMESTER**	**VI**	**Theory Subject**

Civil Engineering	6CE3-01	WIND AND SEISMIC ANALYSIS		Civil Engineering	6CE3-01	WIND AND SEISMIC ANALYSIS
	6CE4-02	STRUCTURAL ANALYSIS-II			6CE4-02	STRUCTURAL ANALYSIS-II
	6CE4-03	ENVIRONMENTAL ENGINEERING			6CE4-03	ENVIRONMENTAL ENGINEERING
	6CE4-04	DESIGN OF STEEL STRUCTURES			6CE4-04	DESIGN OF STEEL STRUCTURES
	6CE4-05	Estimating & Costing			6CE4-05	Estimating & Costing
	6CE5-12	SOLID AND HAZARDOUS WASTE MANAGEMENT			6CE5-12	SOLID AND HAZARDOUS WASTE MANAGEMENT
	6CE5-16	Geographic Information System & Remote Sensing			6CE5-16	Geographic Information System & Remote Sensing
	Practicals & Sessionals				**Practicals & Sessionals**	
	6CE4-21	Environmental Engineering Design and Lab			6CE4-21	Environmental Engineering Design and Lab
	6CE4-22	Steel Structure Design			6CE4-22	Steel Structure Design
	6CE4-23	Quantity Surveying and Valuation			6CE4-23	Quantity Surveyin and Valuation
	6CE4-24	Water and Earth Retaining Structures Design			6CE4-24	Water and Earth Retaining Structures Design
	6CE4-25	Foundation Design			6CE4-25	Foundation Desigr
SEMESTER	**VII**	**Theory Subject**		**SEMESTER**	**VII**	**Theory Subject**
Civil Engineering	7CE4-01	Transportation Engineering		Civil Engg	7CE4-01	Transportation Engineering
	7AG6-60.2	Environmental Engineering and Disaster Management			7AG6-60.2	Environmental Engineering and Disaster Management
	Practicals & Sessionals				**Practicals & Sessionals**	
	7CE7A	Design of Water Resource Structures-I			7CE4-21	Road Material Testing Lab
	7CE8A	Steel Structures Design-I			7CE4-22	Professional Practices & Field Engineering Lab

	7CE9A	Concrete Structures Design-II			7CE4-23	Soft Skills Lab
	7CE10A	Application of Numerical Methods in Civil Engineerinng Lab			7CE4-24	Environmental Monitoring and Design Lab
	7CETR	Practical Training & Industrial Visit			7CE7-30	Practical Training
	7CEPR	Project-I			7CE7-40	Seminar
SEMESTER	**VIII**	**Theory Subject**		**SEMESTER**	**VIII**	**Theory Subject**
Civil Engineering	8CE4-01	Project Planning and Construction Management		**Civil Engg**	8CE4-01	Project Planning and Construction Management
	8TT6-60.2	Disaster Management			8TT6-60.2	Disaster Management
	Practicals & Sessionals				**Practicals & Sessionals**	
	8CE4-21	Project Planning & Construction Management Lab			8CE4-21	Project Planning & Construction Management Lab
	8CE4-22	Pavement Design			8CE4-22	Pavement Design
	8CE7-50	Project			8CE7-50	Project
SEMESTER	**III**	**Theory Subject**		**SEMESTER**	**III**	**Theory Subject**
Computer Science Engineering	3CS2-01	Advanced Engineering Mathematics		**CSE**	3CS2-01	Advanced Engineering Mathematics
	3CS1-02	Technical Communication			3CS1-02	Technical Communication
	3CS3-04	Digital Electronics			3CS3-04	Digital Electronics
	3CS4-05	Data Structures and Algorithms			3CS4-05	Data Structures an Algorithms
	3CS4-06	Object Oriented Programming			3CS4-06	Object Oriented Programming
	3CS4-07	Software Engineering			3CS4-07	Software Engineering
	Practicals & Sessionals				**Practicals & Sessionals**	
	3CS4-21	Data Structures and Algorithms Lab			3CS4-21	Data Structures an Algorithms Lab
	3CS4-22	Object Oriented Programming Lab			3CS4-22	Object Oriented Programming Lab
	3CS4-23	Software Engineering Lab			3CS4-23	Software Engineering Lab
	3CS4-24	Digital Electronics Lab			3CS4-24	Digital Electronics Lab
	3CS7-30	Industrial Training			3CS7-30	Industrial Training
SEMESTER	**IV**	**Theory Subject**		**SEMESTER**	**IV**	**Theory Subject**

	Code	Theory Subject		Code	Theory Subject
CSE	4CS2-01	Discrete Mathematics Structures	CSE	4CS2-01	Discrete Mathematics Structures
	4CS1-03	Managerial Economics and Financial Accounting		4CS1-03	Managerial Economics and Financial Accounting
	4CS3-04	Microprocessor & Interface		4CS3-04	Microprocessor & Interface
	4CS4-05	Database Management System		4CS4-05	Database Management System
	4CS4-06	Theory of Computation		4CS4-06	Theory of Computation
	4CS4-07	Data Communication and Computer Networks		4CS4-07	Data Communication and Computer Networks

Practicals & Sessionals			Practicals & Sessionals		
4CS4-21	Microprocessor & Interfaces Lab		4CS4-21	Microprocessor & Interfaces Lab	
4CS4-22	Database Management System Lab		4CS4-22	Database Management System Lab	
4CS4-23	Network Programming Lab		4CS4-23	Network Programming Lab	
4CS4-24	Linux Shell Programming Lab		4CS4-24	Linux Shell Programming Lab	
4CS4-25	Java Lab		4CS4-25	Java Lab	

SEMESTER	V	Theory Subject	SEMESTER	V	Theory Subject
CSE	5CS3-01	Information Theory & Coding	CSE	5CS3-01	Information Theor & Coding
	5CS4-02	Compiler Design		5CS4-02	Compiler Design
	5CS4-03	Operating System		5CS4-03	Operating System
	5CS4-04	Computer Graphics & Multimedia		5CS4-04	Computer Graphic & Multimedia
	5CS4-05	Analysis of Algorithms		5CS4-05	Analysis of Algorithms
	5CS5-12	Human-Computer Interaction		5CS5-12	Human-Computer Interaction

Practicals & Sessionals			Practicals & Sessionals		
5CS4-21	Computer Graphics & Multimedia Lab		5CS4-21	Computer Graphic & Multimedia Lab	
5CS4-22	Compiler Design Lab		5CS4-22	Compiler Design Lab	
5CS4-23	Analysis of Algorithms Lab		5CS4-23	Analysis of Algorithms Lab	
5CS4-24	Advance Java Lab		5CS4-24	Advance Java Lab	
5CS7-30	Industrial Training		5CS7-30	Industrial Training	

SEMESTER	VI	Theory Subject	SEMESTER	VI	Theory Subject

Computer Science Engineering	6CS3-01	Digital Image Processing	**Computer Science Engineering**	6CS3-01	Digital Image Processing
	6CS4-02	Machine Learning		6CS4-02	Machine Learning
	6CS4-03	Information Security System		6CS4-03	Information Security System
	6CS4-04	Computer Architecture and Organization		6CS4-04	Computer Architecture and Organization
	6CS4-05	Artificial Intelligence		6CS4-05	Artificial Intelligence
	6CS4-06	Cloud Computing		6CS4-06	Cloud Computing
	Practicals & Sessionals			**Practicals & Sessionals**	
	6CS5-11	Distributed System		6CS5-11	Distributed System
	6CS4-21	Digital Image Processing Lab		6CS4-21	Digital Image Processing Lab
	6CS4-22	Machine Learning Lab		6CS4-22	Machine Learning Lab
	6CS4-23	Python Lab		6CS4-23	Python Lab
	6CS4-24	Mobile Application Development Lab		6CS4-24	Mobile Application Development Lab
SEMESTER	**VII**	**Theory Subject**	**SEMESTER**	**VII**	**Theory Subject**
Computer Science Engineering	7CS4-01	Internet of Things	**Computer Science Engineering**	7CS4-01	Internet of Things
	7CE6-60.2	Disaster Management		7CE6-60.2	Disaster Management
	7AG6-60.2	Environment Engg and Disaster Management		7AG6-60.2	Environment Engg and Disaster Management
	Practicals & Sessionals			**Practicals & Sessionals**	
	7CS4-21	Internet of Things Lab		7CS4-21	Internet of Things Lab
	7CS4-22	Cyber Security Lab		7CS4-22	Cyber Security Lab
	7CS7-30	Industrial Training		7CS7-30	Industrial Training
	7CS7-40	Seminar		7CS7-40	Seminar
SEMESTER	**VIII**	**Theory Subject**	**SEMESTER**	**VIII**	**Theory Subject**
Computer Science Engineering	8CS4-01	Big Data Analytics	**Computer Science Engineering**	8CS4-01	Big Data Analytics
	8AN6-60.2	Factor of Human Interactions		8AN6-60.2	Factor of Human Interactions
	8TT6-60.2	Disaster Management		8TT6-60.2	Disaster Management
	Practicals & Sessionals			**Practicals & Sessionals**	
	8CS4-21	Big Data Analytics Lab		8CS4-21	Big Data Analytics Lab

	8CS4-22	Software Testing and Validation Lab		8CS4-22	Software Testing and Validation Lab
	8CS7-50	Project		8CS7-50	Project
SEMESTER	**III**	**Theory Subject**	**SEMESTER**	**III**	**Theory Subject**
Electronics & Communication Engineering	3EC2-01	Advanced Engineering Mathematics-I	Electronics & Communication Engineering	3EC2-01	Advanced Engineering Mathematics-I
	3EC1-02	Technical Communication		3EC1-02	Technical Communication
	3EC4-04	Digital System Design		3EC4-04	Digital System Design
	3EC4-05	Signal & Systems		3EC4-05	Signal & Systems
	3EC4-06	Network Theory		3EC4-06	Network Theory
	3EC4-07	Electronics Devices		3EC4-07	Electronics Devices
	Practicals & Sessionals			**Practicals & Sessionals**	
	3EC4-21	Electronics Devices Lab		3EC4-21	Electronics Devices Lab
	3EC4-22	Digital System Design Lab		3EC4-22	Digital System Design Lab
	3EC4-23	Signal Processing Lab		3EC4-23	Signal Processing Lab
	3EC3-24	Computer Programming Lab-I		3EC3-24	Computer Programming Lab-I
	3EC7-30	Industrial Training		3EC7-30	Industrial Training
SEMESTER	**IV**	**Theory Subject**	**SEMESTER**	**IV**	**Theory Subject**
Electronics & Communication Engineering	4EC2-01	Advanced Engineering Mathematics-II	Electronics & Communication Engineering	4EC2-01	Advanced Engineering Mathematics-II
	4EC1-03	Managerial Economics and Financial Accounting		4EC1-03	Managerial Economics and Financial Accounting
	4EC4-04	Analog Circuits		4EC4-04	Analog Circuits
	4EC4-05	Microcontrollers		4EC4-05	Microcontrollers
	4EC3-06	Electronics Measurement & Instrumentation		4EC3-06	Electronics Measurement & Instrumentation
	4EC4-07	Analog and Digital Communication		4EC4-07	Analog and Digital Communication
	Practicals & Sessionals			**Practicals & Sessionals**	
	4EC4-21	Analog and Digital Communication Lab		4EC4-21	Analog and Digital Communication

	Code	Subject
		Lab
	4EC4-22	Analog Circuits Lab
	4EC4-23	Microcontrollers Lab
	4EC4-24	Electronics Measurement & Instrumentation Lab
SEMESTER	**V**	**Theory Subject**
Electronics & Communication Engineering	5EC 3-01	Computer Architecture
	5EC 4-02	Electromagnetics Waves
	5EC 4-03	Control system
	5EC 4-04	Digital Signal Processing
	5EC 4-05	Microwave Theory & Techniques
	5EC 5-12	Embedded Systems
Practicals & Sessionals		
	5EC 4-21	RF Simulation Lab
	5EC 4-22	Digital Signal Processing Lab
	5EC 4-23	Microwave Lab
	5EC 7-30	Industrial Training
SEMESTER	**VI**	**Theory Subject**
Electronics & Communication Engineering	6EC 3-01	Power Electronics
	6EC 4-02	Computer Network
	6EC 4-03	Fiber Optics Communications
	6EC 4-04	Antennas and Propagation
	6EC 4-05	Information theory and coding
	6EC 5-11	Introduction to MEMS
Practicals & Sessionals		
	6EC 4-21	Computer Network Lab
	6EC 4-22	Antenna and wave propagation Lab
	6EC 4-23	Electronics Design Lab

	6EC 4-24	Power Electronics Lab		6EC 4-24	Power Electronic Lab
SEMESTER	VII	Theory Subject	SEMESTER	VII	Theory Subject
	7EC5-11	VLSI Design		7EC5-11	VLSI Design
	7CE6-60.2	Disaster Management		7CE6-60.2	Disaster Management
	7AG6-60.2	Environment Engg and Disaster Management		7AG6-60.2	Environment Engg and Disaster Management
Electronics & Communication Engineering	Practicals & Sessionals		Electronics & Communication Engineering	Practicals & Sessionals	
	7EC4-21	VLSI Design Lab		7EC4-21	VLSI Design Lab
	7EC4-22	Advance communication lab (MATLAB Simulation)		7EC4-22	Advance communication lab (MATLAB Simulation)
	7EC4-23	Optical Communication Lab		7EC4-23	Optical Communication Lab
	7EC7-30	Industrial Training		7EC7-30	Industrial Training
	7EC7-40	Seminar		7EC7-40	Seminar
SEMESTER	VIII	Theory Subject	SEMESTER	VIII	Theory Subject
	8EC5-11	Artificial Intelligence And Expert Systems		8EC5-11	Artificial Intelligence And Expert Systems
	8AN6-60.2	Factor of Human Interactions		8AN6-60.2	Factor of Human Interactions
	8TT6-60.2	Disaster Management		8TT6-60.2	Disaster Management
Electronics & Communication Engineering	Practicals & Sessionals		Electronics & Communication Engineering	Practicals & Sessionals	
	8EC4-21	Internet of Things (IOT) Lab		8EC4-21	Internet of Things (IOT) Lab
	8EC4-22	Skill Development Lab		8EC4-22	Skill Development Lab
	8EC7-50	Project		8EC7-50	Project
SEMESTER	III	Theory Subject	SEMESTER	III	Theory Subject
	3EE2-01	Advance Mathematics		3EE2-01	Advance Mathematics
Electrical Engineering	3EE1-02	Technical Communication	Electrical Engineering	3EE1-02	Technical Communication
	3EE3-04	Power generation Process		3EE3-04	Power generatio Process
	3EE4-05	Electrical Circuit Analysis		3EE4-05	Electrical Circuit Analysis

	3EE4-06	Analog Electronics		3EE4-06	Analog Electronics	
	3EE4-07	Electrical Machine - I		3EE4-07	Electrical Machine - I	
	3EE4-08	Electromagnetic Field		3EE4-08	Electromagnetic Field	
	Practicals & Sessionals			**Practicals & Sessionals**		
	3EE4-21	Analog Electronics Lab		3EE4-21	Analog Electronics Lab	
	3EE4-22	Electrical Machine-I Lab		3EE4-22	Electrical Machine-I Lab	
	3EE4-23	Electrical circuit design Lab		3EE4-23	Electrical circuit design Lab	
	3EE7-30	Training Seminar		3EE7-30	Training Seminar	
SEMESTER	**IV**	**Theory Subject**	**SEMESTER**	**IV**	**Theory Subject**	
	4EE2-01	Biology		4EE2-01	Biology	
	4EE1-03	Managerial Economics and Financial Accounting		4EE1-03	Managerial Economics and Financial Accounting	
	4EE3-04	Electronic Measurement & Instrumentation		4EE3-04	Electronic Measurement & Instrumentation	
	4EE4-05	Electrical Machine - II		4EE4-05	Electrical Machine - II	
Electrical Engineering	4EE4-06	Power Electronics	**Electrical Engineering**	4EE4-06	Power Electronic	
	4EE4-07	Signals & Systems		4EE4-07	Signals & System	
	4EE4-08	Digital Electronics		4EE4-08	Digital Electronic	
	Practicals & Sessionals			**Practicals & Sessionals**		
	4EE4-21	Electrical Machine - IILab		4EE4-21	Electrical Machine - IILab	
	4EE4-22	Power Electronics Lab		4EE4-22	Power Electronic Lab	
	4EE4-23	Digital Electronics Lab		4EE4-23	Digital Electronic Lab	
	4EE4-24	Measurement Lab		4EE4-24	Measurement Lab	
SEMESTER	**V**	**Theory Subject**	**SEMESTER**	**V**	**Theory Subject**	
	5EE3-01	Electrical Materials		5EE3-01	Electrical Materials	
	5EE4-02	Power System - I		5EE4-02	Power System - I	
Electrical Engineering	5EE4-03	Control System	**Electrical Engineering**	5EE4-03	Contrcl System	
	5EE4-04	Microprocessor		5EE4-04	Microprocessor	
	5EE4-05	Electrical Machine Design		5EE4-05	Electrical Machine Design	
	5EE5-12	Electromagnetic Wave.		5EE5-12	Electromagnetic Wave.	

	Practicals & Sessionals			Practicals & Sessionals	
	5EE4-21	Power System - I Lab		5EE4-21	Power System - I Lab
	5EE4-22	Control System Lab		5EE4-22	Control System Lab
	5EE4-23	Microprocessor Lab		5EE4-23	Microprocessor Lab
	5EE4-24	System Programming Lab		5EE4-24	System Programming Lab
	5EE7-30	Industrial Training		5EE7-30	Industrial Trainin
SEMESTER	**VI**	**Theory Subject**	**SEMESTER**	**VI**	**Theory Subject**
Electrical Engineering	6EE3-01	Computer Architecture	Electrical Engineering	6EE3-01	Computer Architecture
	6EE4-02	Power System - II		6EE4-02	Power System - I
	6EE4-03	Power System Protection		6EE4-03	Power System Protection
	6EE4-04	Electrical Energy Conversion and Auditing		6EE4-04	Electrical Energy Conversion and Auditing
	6EE4-05	Electric Drives		6EE4-05	Electric Drives
	6EE5-11	Power System Planning.		6EE5-11	Power System Planning.
	Practicals & Sessionals			**Practicals & Sessionals**	
	6EE4-21	Power System - II Lab		6EE4-21	Power System - I Lab
	6EE4-22	Electric Drives Lab		6EE4-22	Electric Drives Lab
	6EE4-23	Power System Protection Lab		6EE4-23	Power System Protection Lab
	6EE4-24	Modelling and simulation lab		6EE4-24	Modelling and simulation lab
SEMESTER	**VII**	**Theory Subject**	**SEMESTER**	**VII**	**Theory Subject**
Electrical Engineering	7CE6-60.2	Disaster Management	Electrical Engineering	7CE6-60.2	Disaster Management
	7AG6-60.2	Environment Engg and Disaster Management		7AG6-60.2	Environment Engg and Disaster Management
	7EE5-11	Wind and Solar Energy Systems		7EE5-11	Wind and Solar Energy Systems
	Practicals & Sessionals			**Practicals & Sessionals**	
	7EE4-21	Embedded Systems Lab		7EE4-21	Embedded Systems Lab
	7EE4-22	Advance control system lab		7EE4-22	Advance control system lab
	7EE7-30	Industrial Training		7EE7-30	Industrial Training

	7EE7-40	Seminar
SEMESTER	**VIII**	**Theory Subject**
Electrical Engineering	8EE4-11	HVDC Transmisssion System
	8AN6-60.2	Factor of Human Interactions
	8TT6-60.2	Disaster Management
	Practicals & Sessionals	
	8EE4-21	Energy Systems Lab
	8EE7-50	Project
SEMESTER	**III**	**Theory Subject**
Electrical & Electronics Engineering	3EX2-01	Advance Mathematics
	3EX1-02	Technical Communication
	3EX3-04	Power generation Process
	3EX4-05	Electrical Circuit Analysis
	3EX4-06	Analog Electronics
	3EX4-07	Electrical Machine - I
	3EX4-08	Electromagnetic Field
	Practicals & Sessionals	
	3EX4-21	Analog Electronics Lab
	3EX4-22	Electrical Machine-I Lab
	3EX4-23	Electrical circuit design Lab
	3EX7-30	Training Seminar
SEMESTER	**IV**	**Theory Subject**
Electrical & Electronics Engineering	4EX2-01	Biology
	4EX1-03	Managerial Economics and Financial Accounting
	4EX3-04	Electronic Measurement &

		Instrumentation				Measurement & Instrumentation
	4EX4-05	Electrical Machine - II			4EX4-05	Electrical Machine - II
	4EX4-06	Power Electronics			4EX4-06	Power Electronic
	4EX4-07	Signals & Systems			4EX4-07	Signals & System
	4EX4-08	Digital Electronics			4EX4-08	Digital Electronic
	Practicals & Sessionals				**Practicals & Sessionals**	
	4EX4-21	Electrical Machine - IILab			4EX4-21	Electrical Machine - IILab
	4EX4-22	Power Electronics Lab			4EX4-22	Power Electronic Lab
	4EX4-23	Digital Electronics Lab			4EX4-23	Digital Electronic Lab
	4EX4-24	Measurement Lab			4EX4-24	Measurement Lab
SEMESTER	**V**	**Theory Subject**	**SEMESTER**	**V**	**Theory Subject**	
	5EX3-01	Neural Network			5EX3-01	Neural Network
	5EX4-02	Power System - I			5EX4-02	Power System - I
	5EX4-03	Control System			5EX4-03	Control System
	5EX4-04	Microprocesssor			5EX4-04	Microprocesssor
	5EX4-05	Analog Communication			5EX4-05	Analog Communication
	5EX5-13	Introduction to VLSI			5EX5-13	Introduction to VLSI
Electrical & Electronics Engineering	**Practicals & Sessionals**		**Electrical & Electronics Engineering**	**Practicals & Sessionals**		
	5EX4-21	Power System - I Lab			5EX4-21	Power System - I Lab
	5EX4-22	Control System Lab			5EX4-22	Control System Lab
	5EX4-23	Microprocessor Lab			5EX4-23	Microprocessor Lab
	5EX4-24	Communication Lab			5EX4-24	Communication Lab
	5EX7-30	Industrial Training			5EX7-30	Industrial Trainin
SEMESTER	**VI**	**Theory Subject**	**SEMESTER**	**VI**	**Theory Subject**	
	6EX3-01	Computer Architecture			6EX3-01	Computer Architecture
	6EX4-02	Power System - II			6EX4-02	Power System - I
	6EX4-03	Power System Protection			6EX4-03	Power System Protection
Electrical & Electronics Engineering	6EX4-04	Data Base Management System	**Electrical & Electronics Engineering**		6EX4-04	Data Base Management System
	6EX4-05	Electric Drives			6EX4-05	Electric Drives
	6EX5-12	Smart Grid Technology.			6EX5-12	Smart Grid Technology.

Practicals & Sessionals			Practicals & Sessionals		
6EX4-21	Power System - II Lab		6EX4-21	Power System - I Lab	
6EX4-22	Electric Drives Lab		6EX4-22	Electric Drives Lab	
6EX4-23	Power System Protection Lab		6EX4-23	Power System Protection Lab	
6EX4-24	Modelling and simulation lab		6EX4-24	Modelling and simulation lab	
SEMESTER	**VII**	**Theory Subject**	**SEMESTER**	**VII**	**Theory Subject**
Electrical & Electronics Engineering	7EX5-11	Digital Signal Processing	Electrical & Electronics Engineering	7EX5-11	Digital Signal Processing
	7CE6-60.2	Disaster Management		7CE6-60.2	Disaster Management
	7AG6-60.2	Environmental Engineering and Disaster Management		7AG6-60.2	Environmental Engineering and Disaster Management
	7EX5-13	Image Processing & Pattern Recognitions		7EX5-13	Image Processing & Pattern Recognitions
Practicals & Sessionals			**Practicals & Sessionals**		
7EX4-21	DBMS Lab		7EX4-21	DBMS Lab	
7EX4-22	Advanced Control System Lab		7EX4-22	Advanced Control System Lab	
7EX7-30	Industrial Training		7EX7-30	Industrial Training	
7EX7-40	Seminar		7EX7-40	Seminar	
SEMESTER	**VIII**	**Theory Subject**	**SEMESTER**	**VIII**	**Theory Subject**
Electrical & Electronics Engineering	8EX4-01	Digital Communication and Information Theory	Electrical & Electronics Engineering	8EX4-01	Digital Communication and Information Theory
	8AN6-60.2	Factor of Human Interactions		8AN6-60.2	Factor of Human Interactions
	8TT6-60.2	Disaster Management		8TT6-60.2	Disaster Management
Practicals & Sessionals			**Practicals & Sessionals**		
8EX4-21	Embedded Systems Lab		8EX4-21	Embedded Systems Lab	
8EX7-50	Project		8EX7-50	Project	
SEMESTER	**III**	**Theory Subject**	**SEMESTER**	**III**	**Theory Subject**
Mechanical Engineering	3ME-201	Advanced Engineering Mathematics	Mechanical Engineering	3ME-201	Advanced Engineering

	Code	Subject		Code	Subject
					Mathematics
	3ME-102	Technical Communication		3ME-102	Technical Communication
	3ME3-04	Engineering Mechanics		3ME3-04	Engineering Mechanics
	3ME4-05	Engineering Thermodynamics		3ME4-05	Engineering Thermodynamics
	3ME4-06	Material Science Engineering		3ME4-06	Material Science Engineering
	3ME4-07	Mechanics of Solids		3ME4-07	Mechanics of Solids
	Practicals & Sessionals			**Practicals & Sessionals**	
	3ME4-21	Mechine Drawing Practice		3ME4-21	Mechine Drawing Practice
	3ME4-22	Material Testing Lab		3ME4-22	Material Testing Lab
	3ME4-23	Basic Mechanical Engineering Lab		3ME4-23	Basic Mechanical Engineering Lab
	3ME4-24	Programming Using MATLAB		3ME4-24	Programming Using MATLAB
	3ME7-30	Industrial Training		3ME7-30	Industrial Training
SEMESTER	**IV**	**Theory Subject**	**SEMESTER**	**IV**	**Theory Subject**
	4ME2-01	Data Analytics		4ME2-01	Data Analytics
	4ME1-03	Managerial Economics and Financial Accounting		4ME1-03	Managerial Economics and Financial Accounting
	4ME3-04	Digital Electronics		4ME3-04	Digital Electronics
	4ME4-05	Fluid Mechanics & Machines		4ME4-05	Fluid Mechanics & Machines
Mechanical Engineering	4ME4-06	Manufacturing Processes	**Mechanical Engineering**	4ME4-06	Manufacturing Processes
	4ME4-07	Theory of Machines		4ME4-07	Theory of Machines
	Practicals & Sessionals			**Practicals & Sessionals**	
	4ME3-21	Digital Electronics Lab		4ME3-21	Digital Electronics Lab
	4ME4-22	Fluid Mechanics Lab		4ME4-22	Fluid Mechanics Lab
	4ME4-23	Production practice-I		4ME4-23	Production practice-I
	4ME4-24	Theory of Machine Lab		4ME4-24	Theory of Machine Lab
SEMESTER	**V**	**Theory Subject**	**SEMESTER**	**V**	**Theory Subject**
Mechanical Engineering	5ME3-01	Mechatronics System	**Mechanical Engineering**	5ME3-01	Mechatronics System
	5ME4-02	Heat Transfer		5ME4-02	Heat Transfer
	5ME4-03	Manufacturing Technology		5ME4-03	Manufacturing

					Technology
	5ME4-04	Design of Machine Element-I		5ME4-04	Design of Machine Element-I
	5ME4-05	Principles of Management		5ME4-05	Principles of Management
	5ME5-12	Automobile Engineering		5ME5-12	Automobile Engineering
	Practicals & Sessionals			**Practicals & Sessionals**	
	5ME3-21	Mechatronics Lab		5ME3-21	Mechatronics La
	5ME4-22	Heat Transfer Lab		5ME4-22	Heat Transfer La
	5ME4-23	Production Engineering Lab		5ME4-23	Production Engineering Lab
	5ME4-24	Machine Design Practice-I		5ME4-24	Machine Design Practice-I
	5ME7-30	Industrial Training		5ME7-30	Industrial Training
SEMESTER	**VI**	**Theory Subject**	**SEMESTER**	**VI**	**Theory Subject**
	6ME3-01	Measurement & Metrology		6ME3-01	Measurement & Metrology
	6ME4-02	Computer Integrated Manufacturing System		6ME4-02	Computer Integrated Manufacturing System
	6ME4-03	Vibration Engineering		6ME4-03	Vibration Engineering
	6ME4-04	Design of Machine Element-II		6ME4-04	Design of Machine Element-II
	6ME4-05	Quality Management		6ME4-05	Quality Management
Mechanical Engineering	6ME5-11	Refrigeration & Air Conditioning	**Mechanical Engineering**	6ME5-11	Refrigeration & Air Conditioning
	Practicals & Sessionals			**Practicals & Sessionals**	
	6ME4-21	Computer Integrated Manufacturing Lab		6ME4-21	Computer Integrated Manufacturing Lab
	6ME4-22	Vibration Engineering Lab		6ME4-22	Vibration Engineering Lab
	6ME4-23	Machine Design Practice – II		6ME4-23	Machine Design Practice – II
	6ME4-24	Thermal Engineering Lab-1		6ME4-24	Thermal Engineering Lab-1
SEMESTER	**VII**	**Theory Subject**	**SEMESTER**	**VII**	**Theory Subject**
Mechanical Engineering	7ME5-11	IC Engine	**Mechanical Engineering**	7ME5-11	IC Engine
	7AG6-60.1	Human Engineering and Safety		7AG6-60.1	Human Engineering and Safety

	8TT6-60.2	Disaster Management		8TT6-60.2	Disaster Management
	Practicals & Sessionals			**Practicals & Sessionals**	
	7ME4-21	FEA Lab		7ME4-21	FEA Lab
	7ME4-22	Thermal Engineering Lab II		7ME4-22	Thermal Engineering Lab II
	7ME4-23	Quality Control Lab		7ME4-23	Quality Control Lab
	7ME7-30	Industrial Training		7ME7-30	Industrial Training
	7ME7-40	Seminar		7ME7-40	Seminar
SEMESTER	**VIII**	**Theory Subject**	**SEMESTER**	**VIII**	**Theory Subject**
	8ME5-12	Supply and Operations Management		8ME5-12	Supply and Operations Management
	8TT6-60.2	Disaster Management		8TT6-60.2	Disaster Management
Mechanical Engineering			**Mechanical Engineering**		
	Practicals & Sessionals			**Practicals & Sessionals**	
	8ME4-21	Industrial Engineering Lab		8ME4-21	Industrial Engineering Lab
	8ME4-22	Metrology Lab		8ME4-22	Metrology Lab
	8ME7-50	Project		8ME7-50	Project