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**Date:-18-6-2024**

**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.

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| --- | --- | --- | --- | --- | --- | --- |
| **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/2023-24/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/2023-24/part-b/1.2.1/> |
| 7 | Electrical Engineering | 2013-14 | Yes | 2017-18 | 0% | **3. ELECTIVE SUBJECTS LIST:**  <https://iqac.technonjr.org/aqar/2023-24/part-b/1.2.1/> |
| 9 | Electronics and Communication  Engineering | 2008-09 | Yes | 2017-18 | 2% |  |
| 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.

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| **B. Tech Scheme 2022-23** | | | **B. Tech Scheme 2023-24** | | |
| **Program Name** | **Course code** | **Course Name** | **Program Name** | **Course code** | **Course Name** |
| **SEMESTER** | **I** | **Theory Subject** | **SEMESTER** | **I** | **Theory Subject** |
| **Common to all** | 1FY2-01 | Engineering Mathematics-I | **Common to all** | 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 |
| 1FY3-24 | Manufacturing Practices Workshop | 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** |
| **Civil Engineering** | 3CE2-01 | ADVANCE ENGINEERING MATHEMATICS-I | **Civil Engineering** | 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 |
| 3CE4-07 | BUILDING MATERIALS AND CONSTRUCTION | 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** |
| **Civil Engineering** | 4CE2-01 | ADVANCE ENGINEERING MATHEMATICS-II | **Civil Engineering** | 4CE2-01 | ADVANCE ENGINEERING MATHEMATICS-II |
| 4CE1-03 | MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING | 4CE1-03 | MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING |
| 4CE3-04 | BASIC ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS | 4CE3-04 | BASIC 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 Structures 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 Surveying 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 Design |
| **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 |
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| **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 |
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| **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 |
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| **SEMESTER** | **III** | **Theory Subject** | **SEMESTER** | **III** | **Theory Subject** |
| **Computer Science Engineering** | 3CS2-01 | Advanced Engineering Mathematics | **Computer Science Engineering** | 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 and 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 and 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** |
| **Computer Science Engineering** | 4CS2-01 | Discrete Mathematics Structures | **Computer Science Engineering** | 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** |
| **Computer Science Engineering** | 5CS3-01 | Information Theory & Coding | **Computer Science Engineering** | 5CS3-01 | Information Theory & 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 Graphics & 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 Graphics & 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 |
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| **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 |
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| **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 |
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| **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 |
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| **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 Lab |
| 4EC4-22 | Analog Circuits Lab | 4EC4-22 | Analog Circuits Lab |
| 4EC4-23 | Microcontrollers Lab | 4EC4-23 | Microcontrollers Lab |
| 4EC4-24 | Electronics Measurement & Instrumentation Lab | 4EC4-24 | Electronics Measurement & Instrumentation Lab |
| **SEMESTER** | **V** | **Theory Subject** | **SEMESTER** | **V** | **Theory Subject** |
| **Electronics & Communication Engineering** | 5EC 3-01 | Computer Architecture | **Electronics & Communication Engineering** | 5EC 3-01 | Computer Architecture |
| 5EC 4-02 | Electromagnetics Waves | 5EC 4-02 | Electromagnetics Waves |
| 5EC 4-03 | Control system | 5EC 4-03 | Control system |
| 5EC 4-04 | Digital Signal Processing | 5EC 4-04 | Digital Signal Processing |
| 5EC 4-05 | Microwave Theory & Techniques | 5EC 4-05 | Microwave Theory & Techniques |
| 5EC 5-12 | Embedded Systems | 5EC 5-12 | Embedded Systems |
| **Practicals & Sessionals** | | **Practicals & Sessionals** | |
| 5EC 4-21 | RF Simulation Lab | 5EC 4-21 | RF Simulation Lab |
| 5EC 4-22 | Digital Signal Processing Lab | 5EC 4-22 | Digital Signal Processing Lab |
| 5EC 4-23 | Microwave Lab | 5EC 4-23 | Microwave Lab |
| 5EC 7-30 | Industrial Training | 5EC 7-30 | Industrial Training |
| **SEMESTER** | **VI** | **Theory Subject** | **SEMESTER** | **VI** | **Theory Subject** |
| **Electronics & Communication Engineering** | 6EC 3-01 | Power Electronics | **Electronics & Communication Engineering** | 6EC 3-01 | Power Electronics |
| 6EC 4-02 | Computer Network | 6EC 4-02 | Computer Network |
| 6EC 4-03 | Fiber Optics Communications | 6EC 4-03 | Fiber Optics Communications |
| 6EC 4-04 | Antennas and Propagation | 6EC 4-04 | Antennas and Propagation |
| 6EC 4-05 | Information theory and coding | 6EC 4-05 | 5G Communication |
| 6EC 5-11 | Introduction to MEMS | 6EC 5-11 | Introduction to MEMS |
| **Practicals & Sessionals** | | **Practicals & Sessionals** | |
| 6EC 4-21 | Computer Network Lab | 6EC 4-21 | Computer Network Lab |
| 6EC 4-22 | Antenna and wave propagation Lab | 6EC 4-22 | Antenna and wave propagation Lab |
| 6EC 4-23 | Electronics Design Lab | 6EC 4-23 | Electronics Design Lab |
| 6EC 4-24 | Power Electronics Lab | 6EC 4-24 | Power Electronics Lab |
| **SEMESTER** | **VII** | **Theory Subject** | **SEMESTER** | **VII** | **Theory Subject** |
| **Electronics & Communication Engineering** | 7EC5-11 | VLSI Design | **Electronics & Communication Engineering** | 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 |
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| **Practicals & Sessionals** | | **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** |
| **Electronics & Communication Engineering** | 8EC5-11 | Artificial Intelligence And Expert Systems | **Electronics & Communication Engineering** | 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 |
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| **Practicals & Sessionals** | | **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 |
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| **SEMESTER** | **III** | **Theory Subject** | **SEMESTER** | **III** | **Theory Subject** |
| **Electrical Engineering** | 3EE2-01 | Advance Mathematics | **Electrical Engineering** | 3EE2-01 | Advance Mathematics |
| 3EE1-02 | Technical Communication | 3EE1-02 | Technical Communication |
| 3EE3-04 | Power generation Process | 3EE3-04 | Power generation 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** |
| **Electrical Engineering** | 4EE2-01 | Biology | **Electrical Engineering** | 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 |
| 4EE4-06 | Power Electronics | 4EE4-06 | Power Electronics |
| 4EE4-07 | Signals & Systems | 4EE4-07 | Signals & Systems |
| 4EE4-08 | Digital Electronics | 4EE4-08 | Digital Electronics |
| **Practicals & Sessionals** | | **Practicals & Sessionals** | |
| 4EE4-21 | Electrical Machine - IILab | 4EE4-21 | Electrical Machine - IILab |
| 4EE4-22 | Power Electronics Lab | 4EE4-22 | Power Electronics Lab |
| 4EE4-23 | Digital Electronics Lab | 4EE4-23 | Digital Electronics Lab |
| 4EE4-24 | Measurement Lab | 4EE4-24 | Measurement Lab |
| **SEMESTER** | **V** | **Theory Subject** | **SEMESTER** | **V** | **Theory Subject** |
| **Electrical Engineering** | 5EE3-01 | Electrical Materials | **Electrical Engineering** | 5EE3-01 | Electrical Materials |
| 5EE4-02 | Power System - I | 5EE4-02 | Power System - I |
| 5EE4-03 | Control System | 5EE4-03 | Control 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 Training |
| **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 - II |
| 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 - II 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 |
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| **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 | 7EE7-40 | Seminar |
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| **SEMESTER** | **VIII** | **Theory Subject** | **SEMESTER** | **VIII** | **Theory Subject** |
| **Electrical Engineering** | 8EE4-11 | HVDC Transmisssion System | **Electrical Engineering** | 8EE4-11 | HVDC Transmisssion System |
| 8AN6-60.2 | Factor of Human Interactions | 8AN6-60.2 | Factor of Human Interactions |
| 8TT6-60.2 | Disaster Management | 8TT6-60.2 | Disaster Management |
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| **Practicals & Sessionals** | | **Practicals & Sessionals** | |
| 8EE4-21 | Energy Systems Lab | 8EE4-21 | Energy Systems Lab |
| 8EE7-50 | Project | 8EE7-50 | Project |
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| **SEMESTER** | **III** | **Theory Subject** | **SEMESTER** | **III** | **Theory Subject** |
| **Mechanical Engineering** | 3ME-201 | Advanced Engineering Mathematics | **Mechanical Engineering** | 3ME-201 | Advanced Engineering 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** |
| **Mechanical Engineering** | 4ME2-01 | Data Analytics | **Mechanical Engineering** | 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 |
| 4ME4-06 | Manufacturing Processes | 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 Lab |
| 5ME4-22 | Heat Transfer Lab | 5ME4-22 | Heat Transfer Lab |
| 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** |
| **Mechanical Engineering** | 6ME3-01 | Measurement & Metrology | **Mechanical Engineering** | 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 |
| 6ME5-11 | Refrigeration & Air Conditioning | 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 |
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| **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** |
| **Mechanical Engineering** | 8ME5-12 | Supply and Operations Management | **Mechanical Engineering** | 8ME5-12 | Supply and Operations Management |
| 8TT6-60.2 | Disaster Management | 8TT6-60.2 | Disaster Management |
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| **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 |
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