

| Sr No | Semester | Subject Code | Name of the Subject | CO | Course Outcomes |
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| 1 | III | BTBS301 | Engineering Mathematics - III | C01 | Solve engineering problems using the principles of solution of differential equations. |
| | | | | C02 | Understand analytic function of a complex variable and able to apply Cauchy integral theorem and residue theorem to solve contour integrations |
| | | | | C03 | Use Fourier transforms and its inverse in practical applications of electronics engineering. |
| | | | | C04 | Apply Laplace transform and its inverse to solve initial value and other related problems. |
| | | | | C05 | Know basic statistical techniques required for electronics engineering |
| | | | | C06 | To UnderStand Functions of Complex Variables (Integral calculus) |
| 2 | III | BTCOC302 | Discrete Mathematics | C01 | To introduce the concepts of propositional logic & mathematical logic. |
| | | | | C02 | To perform the operations associated with sets, functions, and relations. |
| | | | | C03 | To introduce generating functions and recurrence relations. |
| | | | | C04 | To study Graph terminologies, Euler's path and Hamiltonian circuit; graph representation and apply Dijkstra's algorithm to find shortest path. |
| | | | | C05 | To develop an understanding of how graph and tree concepts are used to solve problems like Prim's and Kruskal's algorithm. |
| | | | | C06 | Analyse basic facts of algebraic structures. |
| 3 | III | BTCOC303 | Data Structures | C01 | Students should be able to know the fundamentals of data structures like array, list, linked list, stack, queue, tree, graph, hashing. |
| | | | | C02 | Apply Stack, Queue Linear data structure to solve problems |
| | | | | C03 | Apply Linked list data structure for solving problems |

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| | | | | C04 | Analyze nonlinear data structure. |
| | | | | C05 | Use appropriate searching and sorting technique for better efficiency |
| 4 | III | BTCOC304 | Computer Architecture & Organization | C01 | To draw and explain the internal architecture of 8086 with its register organisation. |
| | | | | C02 | Explain various arithmetic and logical 8086 instructions and assembler directives. |
| | | | | C03 | Explain single bus architecture within the processor with complete execution cycle. |
| | | | | C04 | Explain various types of memories and solve numerical on cache memory design. |
| | | | | C05 | Explain and solve arithmetic operations like multiplication using booths algorithm and bit pairing method. |
| | | | | C06 | Perform various arithmetic operations in the 2"s complement system. |
| 5 | III | BTCOC305 Elective-I | Object Oriented Programming in C++ | C01 | Introduces Object Oriented Programming concepts using the C++ language |
| | | | | C02 | Understanding the principles of data abstraction, inheritance and polymorphism |
| | | | | C03 | Able to develop programs with reusability. |
| | | | | C04 | Apply the principles of virtual functions and polymorphism. |
| | | | | C05 | Analyzing the handling formatted I/O and unformatted. |
| | | | | C06 | Develop programs for file handling. |
| | | | | C07 | Handle exceptions in programming. |
| | | | | C08 | Analyse and Apply the generic classes concepts in programming problem |
| | | | | C09 | Develop applications for a range of problems using object-oriented programming techniques. |
| 6 | III | BTCOL306 | Data Structure Lab | C01 | Evaluate Array, Stack, Queue & Linked List of linear data structure. |

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| | | | | C02 | Evaluate nonlinear data structure. |
| | | | | C03 | Evaluate Tree traversals |
| | | | | C04 | Evaluate searching and sorting techniques. |
| | | | Object Oriented Programming Lab | C01 | Creating simple programs using classes and objects in C++. |
| | | | | C02 | Implement object oriented programming concepts using class and objects |
| | | | | C03 | Design and assess the classes for code reuse |
| | | | | C04 | Analyse and Apply the generic classes concepts in programming problem |
| | | | | C05 | Illustrate and evaluate the file Input Output mechanisms |
| | | | | C06 | Implement Object Oriented Programs using templates and exceptional handling concepts. |
| 7 | III | BTCOS307 | Seminar-I | C01 | To establish motivation for any topic of interest and develop a thought process for technical presentation. |
| | | | | C02 | To organize a detailed literature survey and build a document with respect to technical publications. |
| | | | | C03 | To analysis and comprehension of proof-of-concept and related data. |
| | | | | C04 | To give effective presentation and improve soft skills |
| | | | | C05 | To Make use of new and recent technology (e.g. Latex) for creating technical reports. |
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| | IV | BTCOC401 | Design and Analysis of Algorithms | C01 | Given an algorithm, identify the problem it solves. |
| | | | | C02 | Understand the basic notation for analysing the performance of the algorithms. |

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| 8 | | | | C03 | Write algorithms choosing the best one or a combination of two or more of the algorithm design techniques: Iterative, divide-n-conquer, Greedy, Dynamic Programming using appropriate data structures. |
| | | | | C04 | Use a backtracking approach to solve an appropriate problem. |
| | | | | C05 | Use a greedy approach to solve an appropriate problem for optimal solution. |
| | | | | C06 | Apply a dynamic programming approach to solve suitable problems. |
| 9 | IV | BTCOC402 | Operating System | C01 | Understands the different services provided by Operating System at different level. |
| | | | | C02 | Understands the use of different process scheduling algorithm and synchronization techniques |
| | | | | C03 | Understand deadlock, prevention and avoidance algorithms. |
| | | | | C04 | Defining I/O systems, Device Management Policies and Secondary Storage Structure and Evaluation of various Disk Scheduling Algorithms. |
| | | | | C05 | To be familiar with the basics of Linux system and Mobile OS like iOS and Android |
| | | | | C06 | Understand the concept of files and inodes. |
| 10 | IV | BTCOC403 | Basic Human rights | C01 | Understand the basic concept of human right,human duties ,right of working and independence |
| | | | | C02 | Understand the social structure and economic problem |
| | | | | C03 | Study the human right violation ,migrant worker , NGO ,Nature conservation laws. |
| | | | | C04 | Understanding of the Human rights in Indian constitution and law and some othr provisions under the Constitution of India dealing with human rights. |
| | | | | C05 | Understanding human right declaration and also study the national state human right commission. |
| 11 | IV | BTCOC404 | Probability Theory and Random Processes | C01 | Identify and explain one and two dimensional random variables along with their distributions and statistical averages |

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| | | | | C02 | Explain the basic concepts of probability, conditional probability and Bayes' theorem |
| | | | | C03 | Apply some probability distributions to various discrete and continuous problems. |
| | | | | C04 | Solve the problems related to the component and system reliabilities |
| | | | | C05 | Identify the random processes and compute their averages. |
| | | | | C06 | Solve the problems on Ergodic process, Poisson process and Markov chain |
| 12 | IV | BTCOC405 | Digital Logic Design & Microprocessors | C01 | To learn basic techniques for the design of digital circuits and fundamental concepts used in the design of digital systems. To study the basic philosophy underlying the various number systems representation. |
| | | | | C02 | To implement simple logical operations using combinational logic circuits. |
| | | | | C03 | To implement simple logical operations using sequential logic circuits. To study various flip-flops. |
| | | | | C04 | Introduction and brief history of Microprocessors. Architecture of 8086 Microprocessor, Instruction Set of 8086, Working registers, Memory Structures. |
| | | | | C05 | 8086 Instruction Set and Programming, various addressing modes of 8086. To study Assembly language programs, C language programs. |
| 13 | IV | BTCOL406 | Operating System Lab | C01 | Study of Shell Script programming using the commands grep, awk, and sed. |
| | | | | C02 | Implementation of command interpreter |
| | | | | C03 | Write a program to implement the concept of threading. |
| | | | | C04 | Write a program to implement CPU Scheduling algorithms Demonstrate the working of CPU Scheduling algorithms (any two). a. FCFS b. SJF (Preemptive & non-preemptive) c. Round Robin. |

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| | | | | C05 | Write a program to implement Memory Management algorithms – best fit, first fit, worst fit Demonstrate the working of Memory Management algorithms (any two). a. First Fit b. Best Fit c. Worst Fit |
| | | | | C06 | Write a program to implement Page Replacement algorithms Demonstrate the working of Page Replacement algorithms (any two). a. FIFO(First In First Out) b. LRU(Least Recently Used) c. Optimal |
| | | | | C07 | Write a program for Banker’s algorithm |
| | | | | C08 | Write a program to demonstrate disk scheduling algorithms Demonstrate the working of the Disk Scheduling algorithms (any two). a. FCFS b. SSTF c. SCAN d. C-SCAN |
| | | BTCOL406 | Python Programming Lab | C01 | Design an algorithm for a given problem statement. |
| | | C02 | | Construct a data structure appropriate for given algorithmic solution. | |
| | | C03 | | Write, debug and execute Python code using Python interpreter and/or any IDE. | |
| | | C04 | | Solve a given computational problem using Python programming language. | |
| | | C05 | | Use the concepts of classes and functions to modularize problem solution. | |
| | | C06 | | Create, Organize and Access data in the form of file structures. | |
| 14 | IV | BTCOS407 | Seminar-II | C01 | To understand the overview of Web Design Concepts, Web Site Usability and Accessibility, multimedia. |
| | | | | C02 | To study HTML and the Evolution of Markup languages, Create Hyperlinks, Create Tables, Create Web Forms, Image Inserting Techniques, Create Frames. |
| | | | | C03 | To understand features of Dreamweaver Interface, Setting Up a Site with Dreamweaver. To create various types of Links, Insert multimedia including text, image, animation & video. |

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| | | | | C04 | To study Cascading Style Sheets for Web page design, format Text with CSS, Embed Style Sheets, and Attach External Style Sheets, Style Tables with CSS. |
| | | | | C05 | To study JavaScript, Storing the information you need using Variables, Basic in JavaScript — Numbers and operators, Useful string methods, Arrays, Making decisions in your code using Conditionals, Looping code. |
| 15 | V | BTCOC501 | Database System | C01 | Understand the basic concepts and the applications of database systems, ER Diagramming. |
| | | | | C02 | Understanding structure of Relational Database, Relational Algebra queries. |
| | | | | C03 | Write SQL Queries DDL, DML to create databases and manipulate records. |
| | | | | C04 | Database Design JOINS, Advanced SQL, Understanding Triggers. |
| | | | | C05 | Database Design JOINS, Advanced SQL, Understanding Triggers. |
| | | | | C06 | Understanding basics of transaction processing and concurrency control. |
| 16 | V | BTCOC502 | Theory Of Computation | C01 | Understand the basic concept and interpret the mathematical foundations of computation including automata theory |
| | | | | C02 | Understand the basic properties of formal languages and grammars. |
| | | | | C03 | Construct the abstract machines including finite automata, pushdown automata, and Turing machines from their associated languages and grammar |
| | | | | C04 | Make use of pumping lemma to show that a language is not regular / not context-free. |
| | | | | C05 | Construct the grammar for any given finite automata, pushdown automata or Turing machines. |
| | | | | C06 | Outline the characteristics of P, NP and NP Complete problems . |

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| 17 | V | BTCOC503 | Software Engineering | C01 | Understand some ethical and professional issues that are important for software engineers. |
| | | | | C02 | Analyse a system for managing records of patients undergoing treatment for mental health problems, a control system for a portable insulin pump and a wilderness weather system. |
| | | | | C03 | Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. |
| | | | | C04 | Implement generic software process models and agile development methods. |
| | | | | C05 | Understand how graphical models can be used to represent software systems using UML. |
| | | | | C06 | Systematically plan and estimate software system using standard estimation models. |
| | | | | C07 | Perform software validation by understanding the stages of testing from development to acceptance testing by system customers |
| | | | | C08 | Have learned about different types of software maintenance and the factors that affect maintenance costs. |
| 18 | V | BTCOE504 Elective-II | Numerical Methods | C01 | Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems. |
| | | | | C02 | Apply numerical methods to obtain approximate solutions to mathematical problems. |
| | | | | C03 | Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations. |
| | | | | C04 | Analyse and solve several errors and approximation in numerical methods. |
| | | | | C05 | Apply several methods to solve Curve Fitting and Interpolation questions and its related techniques |

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| 19 | V | BTHM505 Elective-III | Economics and Management | C01 | To study workings of the market - demand and supply, market and adjustments, market sensitivity, Elasticity concepts and cost management system. |
| | | | | C02 | To understand economics and management concept which often emphasize on critical thinking and problem-solving skills. Also to study budget concepts. |
| | | | | C03 | To understand and interpret financial statements, which are essential tools for assessing a company's financial health and performance. The time value of money (TVM) is a fundamental financial concept that reflects the idea that a sum of money today is worth more than the same sum of money in the future. |
| | | | | C04 | To explain and apply various depreciation methods, such as straight-line depreciation, declining balance depreciation, and units-of-production depreciation. To study functions of management like planning, organizing, leading (or directing), and controlling. |
| | | | | C05 | To gain a comprehensive understanding of the product development process, from concept generation to market launch, including the various stages involved. To gain a fundamental understanding of the principles and concepts related to plant layout, including factors that influence layout decisions such as product design, process flow, equipment selection, and safety regulations. |
| 20 | V | BTCOL506 | Software Engineering Lab | C01 | Discuss and analyse how to develop software requirements specifications for a given problem. |
| | | | | C02 | Analyse and draw Data Flow Diagram models. |
| | | | | C03 | Understand and describe basic concept of UML modelling. |
| | | | | C04 | Understand and develop various structural and behavioural UML diagrams. |
| | | | | C05 | Generate test cases and perform software testing. |
| | | | C06 | Understand and implement various perspectives of software design. | |
| | | | C01 | Understand the basic concepts and the applications of database systems, ER Diagramming. | |

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| | | | Database System Lab | C02 | Develop a database with various constraints using SQL Data Definition Language. |
| | | | | C03 | Use DML queries to retrieve, insert, delete and update the database |
| | | | | C04 | Apply various SQL features such as Aggregate functions, Set Operations and Views to resolve the queries. |
| | | | | C05 | Demonstrate Stored Procedure, Stored function and Trigger on a Sample Databases. |
| | | | | C06 | Develop database application using ODBC/JDBC interface to store and retrieve data from the database. |
| 21 | V | BTCOM507 | Mini Project -I | C01 | Demonstrate the ability to identify and analyze a real-world problem or challenge and propose a solution |
| | | | | C02 | Develop research skills by conducting a literature review, gathering data, and synthesizing information from various sources. |
| | | | | C03 | Acquire or enhance technical skills and knowledge related to the project's subject matter or tools and technologies required for implementation |
| | | | | C04 | Conduct an engineering project. |
| | | | | C05 | Demonstrate the knowledge, skills and attitudes of a professional engineer |
| 22 | VI | BTCOC601 | Compiler Design | C01 | To realize the basics of compiler design and apply it to real-time applications. |
| | | | | C02 | To introduce different translation languages. |
| | | | | C03 | To understand the importance of code optimization. |
| | | | | C04 | To know about compiler generation tools and techniques. |
| | | | | C05 | To learn the workings of compiler and non-compiler applications. |
| | | | | C06 | Design a compiler for a simple programming language. |

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| 23 | VI | BTCOC602 | Computer Networks | C01 | Define the fundamental concepts and applications of Computer Networks. |
| | | | | C02 | Demonstrate the working of layers in ISO-OSI and TCP/IP Network Models. |
| | | | | C03 | Determine the Network Performance. |
| | | | | C04 | Evaluate different types of Wired and Wireless Technologies. |
| | | | | C05 | Analyse and Apply the Error Handling approaches in Data Communication. |
| | | | | C06 | Exhibit the functioning of Network Protocols. |
| | | | | C07 | Explore techniques to handle Congestion in the Computer Network. |
| | | | | C08 | Examine and Employ various methods to achieve Network Security. |
| 24 | VI | BTCOC603 | Machine Learning | C01 | Learn the basics of learning problems with hypothesis spaces and bias |
| | | | | C02 | Understand the features of machine learning to apply on real world problems |
| | | | | C03 | Characterize the machine learning algorithms as supervised learning and unsupervised learning and Apply and analyse the various algorithms of supervised and unsupervised learning |
| | | | | C04 | Learn the concepts in Bayesian analysis from probability models and methods. |
| | | | | C05 | Analyze the concept of neural networks for learning linear and non-linear activation functions |
| 25 | VI | BTCOE604 Elective-IV | Internet of Things | C01 | Interpret the impact and challenges posed by IoT networks leading to new technologies and architectural models. |
| | | | | C02 | Illustrate the smart objects and the technologies to connect them to network. |

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| | | | | C03 | Compare different Application protocols for IoT. |
| | | | | C04 | Infer the role of Data Analytics and Security in IoT. |
| | | | | C05 | Identify sensor technologies for sensing real world entities and understand the role of IoT in various domains of Industry. |
| | | | | C06 | Understand the physical devices like sensors, actuators and controllers and use them to build IoT applications. |
| 26 | VI | BTHM605 Elective- V | Consumer Behaviour | C01 | To study consumer behaviour and it's evolution. Also, to study interdisciplinary nature and various approaches to consumer behaviour research. |
| | | | | C02 | To explain the process of consumer decision-making, including problem recognition, information search, evaluation of alternatives, purchase, and post-purchase evaluation. To study the market segmentation, targeting and positioning. |
| | | | | C03 | To study various models of consumer behaviour. |
| | | | | C04 | To study the psychological factors that influence consumer behaviour, such as motivation, perception, attitude formation, and learning. Understand the impact of social and cultural factors, including family, reference groups, social class, culture, and subculture, on consumer choices. Develop effective communication skills for presenting research findings and consumer behaviour insights. |
| | | | | C05 | To explain the characteristics and behaviours of innovators and early adopters, and understand their role in driving the early stages of diffusion. To explain Organization Buyer's Decision-Making Process. To study product, price, distribution and promotion strategy related to consumer behaviour. |
| 27 | VI | BTCOL606 | Competitive Programming Lab | C01 | Learn the basics of learning problems with hypothesis spaces and bias |
| | | | | C02 | Understand the problem statements. analyse, find a solution. recognize the time and memory complexity of an algorithm |
| | | | | C03 | Understanding the concepts, study algorithms. |
| | | | | C04 | Learning technics and strategies to solve a problem statement and apply the knowledge on a wider set of problems. |

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| | | | | C05 | Participate in the programming challenges in competitive platforms like codechef.com, uva.onlinejudge.com |
| | | | | C06 | Practice the challenging problems to succeed in the programming challenges. |
| | | | Machine learning Lab | C01 | Understand the mathematical and statistical prospective of machine learning algorithms through R programming and python programming. |
| | | | | C02 | Design and evaluate the unsupervised models through R in built functions. |
| | | | | C03 | Design and evaluate the supervised models through R in built functions. |
| | | | | C04 | Design and develop the code for House Price Data through python programming |
| | | | 28 | VI | BTCOM607 |
| C02 | Develop research skills by conducting a literature review, gathering data, and synthesizing information from various sources. | | | | |
| C03 | Acquire or enhance technical skills and knowledge related to the project's subject matter or tools and technologies required for implementation | | | | |
| C04 | Conduct an engineering project. | | | | |
| C05 | Demonstrate the knowledge, skills and attitudes of a professional engineer | | | | |
| 29 | VII | BTCOC701 | Artificial Intelligence | C01 | Demonstrate a fundamental understanding of the history of artificial intelligence (AI) and its foundations. |
| | | | | C02 | Apply basic principles of AI in solutions that require problem-solving, inference, perception, knowledge representation, and learning. |
| | | | | C03 | Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and natural language processing. |

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| | | | | C04 | Apply AI techniques to real-world problems to develop intelligent systems. |
| | | | | C05 | Understand the informed and uninformed problem types and apply search strategies to solve them. |
| | | | | C06 | Apply difficult real-life problems in a state space representation so as to solve those using AI techniques like searching and game playing. |
| 30 | VII | BTCOC702 | Cloud Computing | C01 | Understand various basic concepts related to cloud computing technologies. |
| | | | | C02 | To demonstrate an understanding of Service models, deployment models, Virtualization. |
| | | | | C03 | Understand different cloud programming platforms and tools. |
| | | | | C04 | Create application by utilizing cloud platforms such as Google app Engine and Amazon Web Services (AWS) |
| | | | | C05 | Be familiar with cloud programming using Google's 'Go' programming language. |
| 31 | VII | BTCOE704 Elective -VI | Block Chain Technology | C01 | Describe the fundamental concepts of Blockchain Technology and Cryptocurrency. |
| | | | | C02 | Identify the Cryptographic concepts required to implement Blockchain applications. |
| | | | | C03 | Define the notions related with Bitcoin Cryptocurrency. |
| | | | | C04 | Evaluate the Consensus methods used in Bitcoin/Permission-less Blockchain System. |
| | | | | C05 | Examine and apply Consensus algorithms in Permissioned Blockchain System. |
| | | | | C06 | Explore different real-time applications of Blockchain system. |
| | | | | C07 | Implement Smart Contract based system with Ethereum/Hyperledger. |
| 32 | VII | BTCOE703C | Big Data Analytics | C01 | Understand Big Data and its analytics in the real world. |

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| | | Elective -VI | | C02 | Analyze the Big Data framework like Hadoop and NOSQL to efficiently store and process Big Data to generate analytics. |
| | | | | C03 | Design of Algorithms to solve Data-Intensive Problems using Map Reduce Paradigm. |
| | | | | C04 | Design and Implementation of Big Data Analytics using Pig and Spark to solve data-intensive problems and to generate analytics. |
| | | | | C05 | Implement Big Data Activities using Hive. |
| 33 | VII | BTCOE705 | Deep learning | C01 | Understand the history of deep learning and see the success story. |
| | | | | C02 | Study the models are McCulloch Pitts Neuron,perceptron, MLP ,Sigmoid Neurons, Gradient Descent. |
| | | | | C03 | Implement deep learning algorithm and solve real -world problem |
| | | | | C04 | Identify the deep learning algorithms which are more appropriate for various types of learning tasks in various domains. |
| | | | | C05 | Design of another class of layered networks using deep learning principles. |
| 34 | VII | BTCOL707 | Cloud Computing Lab | C01 | Sketch out and analyze architecture of Moodle cloud portal and moodle cloud site and create different entities dynamically. |
| | | | | C02 | Create a scenario in wordpress for Social Marketing, Search engine and Sharing Tools. |
| | | | | C03 | Working in Codenvy to demonstrate Provisioning and Scaling of a website. |
| | | | | C04 | Implement and configure Google App Engine to deploy Python Program application. |
| | | | | C05 | Installation and configuration of virtual machine with guest OS. |
| | | | | C06 | Categorize Amazon Web Service (AWS) and implement its various cloud entities using its Cloud Toolbox support. |
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| | | | | C02 | Develop a solution based on Backtracking technique. |
| | | | | C03 | Evaluate and Apply different types of Graph Traversal algorithms. |
| | | | | C04 | Construct a solution using Recursive Control Search technique for problem solving. |
| | | | | C05 | Implement the solutions for real-world problems using PROLOG. |
| 35 | VII | BTCOS708 | Project Phase-I | C01 | Demonstrate a sound technical knowledge of their selected project topic. |
| | | | | C02 | Undertake problem identification, formulation and solution |
| | | | | C03 | Design engineering solutions to complex problems utilizing a systems approach. |
| | | | | C04 | Implement an engineering project |
| | | | | C05 | Demonstrate the knowledge, skills and attitudes of a professional engineer. |
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| 36 | VIII | BTCOF801 | Project Phase-II | C01 | Demonstrate a sound technical knowledge of their selected project topic. |
| | | | | C02 | Undertake problem identification, formulation and solution |
| | | | | C03 | Design engineering solutions to complex problems utilizing a systems approach. |
| | | | | C04 | Implement an engineering project |
| | | | | C05 | Demonstrate the knowledge, skills and attitudes of a professional engineer. |