



Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BAS 303	Subject Name: Mathematics IV	
Course Outcomes	BAS 303.1 Students will be able to apply concepts of Digital Binary System and implementation of Gates.	
	BAS 303.2 Students will be able to analyze and design of Combinational logic circuits.	
	BAS 303.3 Students will be able to analyze and design of Sequential logic circuits with their applications.	
	BAS 303.4 Students will be able to implement the Design procedure of Synchronous & Asynchronous Sequential Circuits.	
	BAS 303.5 Students will be able to apply the concept of Digital Logic Families with circuit implementation.	

Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BAS 301	Subject Name: Technical Communication	
Course Outcomes	BAS 301.1 Students will be able to UNDERSTAND the nature and objective of Technical Communication relevant for the work place as Engineers.	
	BAS 301.2 Students will be able to DEVELOP an understanding of key concepts of writing, designing and speaking.	
	BAS 301.3 Students will be able to UTILIZE the technical writing skills for the purposes of Technical Communication and its exposure in various dimensions.	
	BAS 301.4 Students will be able BUILD UP interpersonal communication traits that will make the transition from institution to workplace smoother and help them to excel in their jobs	
	BAS 301.5 Students will be able to APPLY technical communication to build their personal brand and handle crisis communication.	



Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 301	Subject Name: Data Structure	
Course Outcomes	BCS 301.1 Describe how arrays, linked lists, stacks, queues, trees, and graphs are represented in memory, used by the algorithms and their common applications.	
	BCS 301.2 Discuss the computational efficiency of the sorting and searching algorithms.	
	BCS 301.3 Implementation of Trees and Graphs and perform various operations on these data structure.	
	BCS 301.4 Understanding the concept of recursion, application of recursion and its implementation and removal of recursion.	
	BCS 301.5 Identify the alternative implementations of data structures with respect to its performance to solve a real world problem.	

Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 302	Subject Name: Computer Organization & Architecture	
Course Outcomes	BCS 302.1 Study of the basic structure and operation of a digital computer system.	
	BCS 302.2 Analysis of the design of arithmetic & logic unit and understanding of the fixed point and floating point arithmetic operations.	
	BCS 302.3 Implementation of control unit techniques and the concept of Pipelining.	
	BCS 302.4 Understanding the hierarchical memory system, cache memories and virtual memory.	
	BCS 302.5 Understanding the different ways of communicating with I/O devices and standard I/O interfaces.	



Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 303	Subject Name: Discrete Structures & Theory of Logic	
Course Outcomes	BCS 303.1 Acquire Knowledge of sets and relations for solving the problems of POSET and lattices.	
	BCS 303.2 Apply fundamental concepts of functions and Boolean algebra for solving the problems of logical abilities.	
	BCS 303.3 Employ the rules of propositions and predicate logic to solve the complex and logical problems.	
	BCS 303.4 Explore the concepts of group theory and their applications for solving the advance technological problems.	
	BCS 303.5 Illustrate the principles and concepts of graph theory for solving problems related to computer science	

Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCC 302	Subject Name: Python Programming	
Course Outcomes	BCC 302.1 Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.	
	BCC 302.2 Express proficiency in the handling of strings and functions	
	BCC 302.3 Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.	
	BCC 302.4 Identify the commonly used operations involving file systems and regular expressions.	
	BCC 302.5 Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python	



Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 351	Subject Name: Data Structure Lab	
Course Outcomes	BCS 351.1 Demonstrate familiarity with major algorithms and data structures.	
	BCS 351.2 Choose the appropriate data structure and algorithm design method for a specified application.	
	BCS 351.3 Identify which algorithm or data structure to use in different scenarios.	
	BCS 351.4 Familiar with writing recursive methods.	
	BCS 351.5 Implement indexing and hashing techniques used in several other fields of computer science eg. Database, Networks etc.	

Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 352	Subject Name: Computer Organization and Architecture Lab	
Course Outcomes	BCS 352.1 Implement the basic logic gates.	
	BCS 352.2 Design various combinational circuits such as adders, code converter, multiplier decoder, and multiplexer using logic gates and verify their working.	
	BCS 352.3 Implement the basic building block of the sequential circuits (i.e. Flip Flop).	
	BCS 352.4 Design the 8-bit Arithmetic Logic Unit.	
	BCS 352.5 Design of data path and control unit of the computer	



Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCS 353	Subject Name: Web Designing Workshop	
Course Outcomes	BCS 353.1 Design webpages using HTML / XML and CSS.	
	BCS 353.2 Create user interface using Javascripts.	
	BCS 353.3 Create dynamic web pages using server side Scripting.	

Branch: Information Technology	Year: II	Semester: ODD 2025-26
Subject Code: BCC 351	Subject Name: Mini project/Internship Assessment	
Course Outcomes	BCC 351.1 Discover potential research areas in the field of IT	
	BCC 351.2 Compare and contrast the several existing solutions for research challenge	
	BCC 351.3 Demonstrate an ability to work in teams and manage the conduct of the research study	
	BCC 351.4 Formulate and propose a plan for creating a solution for the research plan identified	
	BCC 351.5 To report and present the findings of the study conducted in the preferred domain	



Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BOE 410	Subject Name : Digital Electronics	
Course Outcomes	BOE 410.1 Apply concepts of Digital Binary System and implementation of Gates.	
	BOE 410.2 Analyze and design of Combinational logic circuits.	
	BOE 410.3 Analyze and design of Sequential logic circuits with their applications.	
	BOE 410.4 Implement the Design procedure of Synchronous & Asynchronous Sequential Circuits.	
	BOE 410.5 Apply the concept of Digital Logic Families with circuit implementation.	

Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BVE 401	Subject Name: Universal Human Value and Professional Ethics	
Course Outcomes	BVE 401.1 To help students distinguish between values and skills, and understand the need, basic guidelines, content, and process of value education.	
	BVE 401.2 To help students initiate a process of dialog within themselves to know what they really want to be in their life and profession.	
	BVE 401.3 To help students understand the meaning of happiness and prosperity for a human being.	
	BVE 401.4 To facilitate the students to understand harmony at all the levels of human living, and live accordingly.	
	BVE 401.5 To facilitate the students in applying.	



Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BCS 401	Subject Name: Operating System	
Course Outcomes	BCS 401.1 Understand the structure and functions of OS	
	BCS 401.2 Learn about Processes, Threads and Scheduling algorithms.	
	BCS 401.3 Understand the principles of concurrency and Deadlocks	
	BCS 401.4 Learn various memory management scheme	
	BCS 401.5 Study I/O management and File systems.	

Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BCS 402	Subject Name: Theory of Automata and Formal Languages	
Course Outcomes	BCS 402.1 Analyse and design finite automata, pushdown automata, Turing machines, formal languages, and grammars.	
	BCS 402.2 Analyse and design, Turing machines, formal languages, and grammars.	
	BCS 402.3 Demonstrate the understanding of key notions, such as algorithm, computability, decidability, and complexity through problem solving.	
	BCS 402.4 Prove the basic results of the Theory of Computation.	
	BCS 402.5 State and explain the relevance of the Church-Turing thesis.	



Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BCS 403	Subject Name: Object Oriented Programming with Java	
Course Outcomes	BCS 403.1 Develop the object-oriented programming concepts using Java.	
	BCS 403.2 Implement exception handling, file handling, and multi-threading in Java.	
	BCS 403.3 Apply new java features to build java programs.	
	BCS 403.4 Analyse java programs with Collection Framework.	
	BCS 403.5 Test web and RESTful Web Services with Spring Boot using Spring Framework concepts.	

Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BCS 451	Subject Name: Operating System Lab	
Course Outcomes	BCS 451.1 Simulate CPU Scheduling Algorithms like FCFS, RR, SJF, Priority and Banker's Algorithm for deadlock avoidance and prevention.	
	BCS 451.2 Program the FIFO, LRU, and OPTIMAL page replacement algorithms.	
	BCS 451.3 Use basic UNIX/LINUX Commands	

Branch: Information Technology	Year: II	Semester: EVEN 2025-26
Subject Code: BCS 452	Subject Name: Object Oriented Programming with Java Lab	
Course Outcomes	BCS 452.1 Develop the object-oriented programming concepts using Java.	
	BCS 452.2 Implement exception handling, file handling, and multi-threading in Java.	
	BCS 452.3 Test web and RESTful Web Services with Spring Boot using Spring Framework concepts.	



Branch: Information Technology	Year: II	Semester: EVEN 2024-25
Subject Code: BCS 453	Subject Name: Cyber Security Workshop	
Course Outcomes	BCS 453.1 Understand the packet analysis using wireshark.	
	BCS 453.2 Understand the Web Application Security using DVWA	