



Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 501	Subject Name: Database Management System	
Course Outcomes	BCS 501.1 Apply knowledge of database for real life applications.	
	BCS 501.2 Apply query processing techniques to automate the real time problems of databases	
	BCS 501.3 Identify and solve the redundancy problem in database tables using normalization	
	BCS 501.4 Understand the concepts of transactions, their processing so they will familiar with broad range of database management issues including data integrity, security and recovery.	
	BCS 501.5 Design, develop and implement a small database project using database tools.	

Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCS 502	Subject Name: Web Technology	
Course Outcomes	BCS 502.1 Understand the fundamental concepts of web development, including the history, protocols, and tools. Apply HTML and XML in the development of web projects.	
	BCS 502.2 Apply CSS for designing and styling web pages, including the use of CSS properties, styling elements, and advanced techniques for creating responsive web sites.	
	BCS 502.3 Develop interactive web applications using JavaScript and AJAX, with a focus on scripting documents, forms, and networking concepts such as internet addressing and TCP/IP sockets.	
	BCS 502.4 Design and implement server-side applications using Enterprise Java Beans (EJB) and Node.js, including the creation of JavaBeans, RESTful APIs, and database operations with MongoDB.	
	BCS 502.5 Implement web server functionality using Servlets and Java Server Pages(JSP), focusing on handling HTTP requests, session tracking, and utilizing custom tag libraries for dynamic web content.	



Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCS 503	Subject Name: Design and Analysis of Algorithm	
Course Outcomes	BCS 503.1 Design new algorithms, prove them correct, and analyze their asymptotic and absolute runtime and memory demands.	
	BCS 503.2 Find an algorithm to solve the problem (create) and prove that the algorithm solves the problem correctly (validate).	
	BCS 503.3 Understand the mathematical criterion for deciding whether an algorithm is efficient, and know many practically important problems that do not admit any efficient algorithms.	
	BCS 503.4 Apply classical sorting, searching, optimization and graph algorithms.	
	BCS 503.5 Understand basic techniques for designing algorithms, including the techniques of recursion, divide-and-conquer, and greedy.	

Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCS 054	Subject Name : Object Oriented System Design	
Course Outcomes	BCS 054.1 To Understand the application development and analyze the insights of object oriented programming to implement application.	
	BCS 054.2 To Understand, analyze and apply the role of overall modeling concepts (i.e. System, structural).	
	BCS 054.3 To Understand, analyze and apply oops concepts (i.e. abstraction, inheritance).	
	BCS 054.4 To know the concepts of C++ for understanding the implementation of object oriented concepts.	
	BCS 054.5 To understand and apply object oriented paradigm concepts to implement real world problems.	



Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCS 055	Subject Name: Machine Learning Techniques	
Course Outcomes	BCS 055.1 To understand the need for machine learning for various problem solving	
	BCS 055.2 To understand a wide variety of learning algorithms and how to evaluate models generated from data.	
	BCS 055.3 To understand the latest trends in machine learning.	
	BCS 055.4 To design appropriate machine learning algorithms and apply the algorithms to a real-world problems.	
	BCS 055.5 To optimize the models learned and report on the expected accuracy that can be achieved by applying the models.	

Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BNC 501	Subject Name: Constitution of India, Law and Engineering	
Course Outcomes	BNC 601.1 Identify and explore the basic features and modalities about Indian constitution.	
	BNC 601.2 Differentiate and relate the functioning of Indian parliamentary system at the center and state level.	
	BNC 601.3 Differentiate different aspects of Indian Legal System and its related bodies.	
	BNC 601.4 Discover and apply different laws and regulations related to engineering practices.	
	BNC 601.5 Correlate role of engineers with different organizations and governance models.	

Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCC 551	Subject Name: Database Management Systems Lab	
Course Outcomes	BCC 551.1 Understand and apply oracle 11 g products for creating tables, views, indexes, sequences and other database Objects.	
	BCC 551.2 Design and implement a database schema for company data base, banking data base, library information system, payroll processing system, student information system.	
	BCC 551.3 Write and execute simple and complex queries using DDL, DML, DCL and TCL, PL/SQL blocks procedure functions, packages and triggers, cursors.	



Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCC 552	Subject Name: Web Technology Lab	
Course Outcomes	BCC 552.1 Understanding fundamentals of website development and apply HTML and XML languages for development of websites	
	BCC 552.2 Applying CSS in designing and development of responsive website for compatibility of various devices and design and deploy different components using Java Bean, Node.js and database tables using MongoDB and produce various results based on given query.	
	BCC 552.3 Understand, analyze and design the role of JavaScript for dynamic web pages and design and deploy server-side java application called Servlet & JSP tools to catch form data sent from client, process it and store it on database	

Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCC 553	Subject Name: Design and Analysis of Algorithm Lab	
Course Outcomes	BCC 553.1 Understand and implement algorithm to solve problems by iterative approach.	
	BCC 553.2 Understand and implement algorithm to solve problems by divide and conquer approach.	
	BCC 553.3 Understand and implement algorithm to solve problems by Greedy algorithm approach.	



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Branch: Information Technology	Year: III	Semester: ODD 2025-26
Subject Code: BCC 554	Subject Name: Mini project or Internship Assessment	
Course Outcomes	BCC 554.1 Identify a problem and gather its requirements.	
	BCC 554.2 Design a solution of the problem using latest tools & techniques.	
	BCC 554.3 Develop a project using latest technology.	
	BCC 554.4 Develop professional skills and critical thinking to prepare for major project.	
	BCC 554.5 Demonstrate an ability to present project works to the Evaluators.	



Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 601	Subject Name: Software Engineering	
Course Outcomes	BCS 601.1 Explain various software characteristics and analyze different software Development Models.	
	BCS 601.2 Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that design, development meet or exceed applicable Standards.	
	BCS 601.3 Compare and contrast various methods for software design.	
	BCS 601.4 Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing.	
	BCS 601.5 Manage software development process independently as well as in teams and make use of various software management tools for development, maintenance and analysis.	

Branch: Information Technology	Year: III	Semester: EVEN 2024-25
Subject Code: BIT 601	Subject Name: Data Analytics	
Course Outcomes	BIT 601.1 Discuss various concepts of data analytics pipeline.	
	BIT 601.2 Apply classification and regression techniques.	
	BIT 601.3 Explain and apply mining techniques on streaming data.	
	BIT 601.4 Compare different clustering and frequent pattern mining algorithms.	
	BIT 601.5 Describe the concept of R programming and implement analytics on Big data using R.	



Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 603	Subject Name: Computer Networks	
Course Outcomes	BCS 603.1 Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission.	
	BCS 603.2 Apply channel allocation, framing, error and flow control techniques.	
	BCS 603.3 Describe the functions of Network Layer i.e. logical addressing, subnetting & Routing Mechanism.	
	BCS 603.4 Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism.	
	BCS 603.5 Explain the functions offered by session and presentation layer and their Implementation.	
	BCS 603.6 Explain the different protocols used at application layer i.e. HTTP, SNMP, SMTP, FTP, TELNET and VPN.	

Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 061	Subject Name: Big Data	
Course Outcomes	BCS 061.1 Demonstrate knowledge of Big Data Analytics concepts and its applications in business.	
	BCS 061.2 Demonstrate functions and components of Map Reduce Framework and HDFS.	
	BCS 061.3 Discuss Data Management concepts in NoSQL environment.	
	BCS 061.4 Explain process of developing Map Reduce based distributed processing applications.	
	BCS 061.5 Explain process of developing applications using HBASE, Hive, Pig etc.	



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Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BIT 061	Subject Name: Blockchain Architecture Design	
Course Outcomes	BIT 061.1 Describe the basic understanding of Blockchain architecture along with its primitive.	
	BIT 061.2 Explain the requirements for basic protocol along with scalability aspects.	
	BIT 061.3 Design and deploy the consensus process using frontend and backend.	
	BIT 061.4 Apply Blockchain techniques for different use cases like Finance, Trade/Supply and Government activities.	

Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BNC 602	Subject Name: Essence of Indian Traditional Knowledge	
Course Outcomes	BNC 502.1 Ability to understand, connect up and explain basics of Indian Traditional knowledge modern scientific perspective.	



Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 651	Subject Name: Software Engineering Lab	
Course Outcomes	BCS 651.1 Identify ambiguities, inconsistencies and incompleteness from a requirements specification and state functional and non-functional requirement.	
	BCS 651.2 Identify different actors and use cases from a given problem statement and draw use case diagram to associate use cases with different types of relationship.	
	BCS 651.3 Draw a class diagram after identifying classes and association among them and graphically represent various UML diagrams, and associations among them and identify the logical sequence of activities undergoing in a system, and represent them pictorially.	

Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BIT 651	Subject Name: Data Analytics Lab	
Course Outcomes	BIT 651.1 Implement numerical, statistical analysis and linear regression technique on numeric data for prediction.	
	BIT 651.2 Apply data preprocessing and dimensionality reduction methods on raw data.	
	BIT 651.3 Execute clustering and association rule mining algorithms on different datasets and evaluate the performance of KNN algorithm on different datasets.	

Branch: Information Technology	Year: III	Semester: EVEN 2025-26
Subject Code: BCS 653	Subject Name: Computer Networks Lab	
Course Outcomes	BCS 653.1 Simulate different network topologies, network routing and addressing techniques.	
	BCS 653.2 Implement various framing methods of Data Link Layer.	
	BCS 653.3 Implement various Error and flow control techniques.	