Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KCS 501	**Subject Name:** Database Management System	
Course Outcomes	**KCS 501.1** Apply knowledge of database for real life applications. **KCS 501.2** Apply query processing techniques to automate the realtime problems of databases **KCS 501.3** Identify and solve the redundancy problem in databasetables using normalization **KCS 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. **KCS 501.5** Design, develop and implement a small database project using database tools.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KIT 501	**Subject Name:** Web Technology	
Course Outcomes	**KIT 501.1** Apply the knowledge of the internet and related internet concepts that are vital in understanding web application development and analyze the insights of internet programming to implement complete application over the web. **KIT 501.2** Understand, analyze and apply the role of markup languages like HTML, DHTML, and XML in the workings of the web and web applications. **KIT 501.3** Use web application development software tools i.e. XML, Apache Tomcat etc. and identifies the environments currently available on the market to design web sites. **KIT 501.4** Understand, analyze and build dynamic web pages using client side programming JavaScript and also develop the web application using servlet and JSP. **KIT 501.5** Understand the impact of web designing by database connectivity with JDBC in the current market place where everyone use to prefer electronic medium for shopping, commerce, fund transfer and even social life also.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KCS 503	**Subject Name:** Design and Analysis of Algorithm	
Course Outcomes	**KCS 503.1** Design new algorithms, prove them correct, and analyze their asymptotic and absolute runtime and memory demands.	
	KCS 503.2 Find an algorithm to solve the problem (create) and prove that the algorithm solves the problem correctly (validate).	
	KCS 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.	
	KCS 503.4 Apply classical sorting, searching, optimization and graph algorithms.	
	KCS 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 2022-23
Subject Code: KCS 054	**Subject Name :** Object Oriented System Design	
Course Outcomes	**KCS 054.1** To Understand the application development and analyze the insights of object oriented programming to implement application.	
	KCS 054.2 To Understand, analyze and apply the role of overall modeling concepts (i.e. System, structural).	
	KCS 054.3 To Understand, analyze and apply oops concepts (i.e. abstraction, inheritance).	
	KCS 054.4 To know the concepts of C++ for understanding the implementation of object oriented concepts.	
	KCS 054.5 To understand and apply object oriented paradigm concepts to implement real world problems.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KCS 055	**Subject Name:** Machine Learning Techniques	
Course Outcomes	**KCS 055.1** To understand the need for machine learning for various problem solving	
	KCS 055.2 To understand a wide variety of learning algorithms and how to evaluate models generated from data.	
	KCS 055.3 To understand the latest trends in machine learning.	
	KCS 055.4 To design appropriate machine learning algorithms and apply the algorithms to a real-world problems.	
	KCS 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 2022-23
Subject Code: KNC 502	**Subject Name:** Indian Tradition, Culture and Society	
Course Outcomes	**KNC 502.1** Ability to understand, connect up and explain basics of Indian Traditional knowledge modern scientific perspective.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KCS 551	**Subject Name:** Database Management Systems Lab	
Course Outcomes	**KCS 551.1** Understand and apply oracle 11 g products for creating tables, views, indexes, sequences and other database Objects.	
	KCS 551.2 Design and implement a database schema for company data base, banking data base, library information system, payroll processing system, student information system.	
	KCS 551.3 Write and execute simple and complex queries using DDL, DML, DCL and TCL.	
	KCS 551.4 Write and execute PL/SQL blocks, procedure functions, packages and triggers, cursors.	
	KCS 551.5 Enforce entity integrity, referential integrity, key constraints, and domain constraints on database.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KIT 551	**Subject Name:** Web Technology Lab	
Course Outcomes	**KIT 551.1** Understand fundamentals of web development and Java, including defining classes, invoking methods, using class libraries, Applet, AWT.	
	KIT 551.2 Understand, analyze and apply the role of scripts/languages like HTML, DHTML, CSS, XML, DOM, and SAX to solve real world problems.	
	KIT 551.3 Understand, analyze and design the role of JavaScriptfor dynamic web pages.	
	KIT 551.4 Design and deploy different components using EJB and database tables using JDBC and produce various results based on given query.	
	KIT 551.4 Design and deploy a 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 2022-23
Subject Code: KCS 553	**Subject Name:** Design and Analysis of Algorithm Lab	
Course Outcomes	**KCS 553.1** Understand and implement algorithm to solve problems by iterative approach.	
	KCS 553.2 Understand and implement algorithm to solve problems by divide and conquer approach.	
	KCS 553.3 Understand and implement algorithm to solve problems by Greedy algorithm approach.	
	KCS 553.4 Understand and analyze algorithm to solve problemsby Dynamic programming, backtracking.	
	KCS 553.5 Understand and analyze the algorithm to solve problems by branch and bound approach.	

Branch: Information Technology	Year: III	Semester: ODD 2022-23
Subject Code: KCS 554	**Subject Name:** Mini project or Internship Assessment	
Course Outcomes	**KCS 554.1** Identify a problem and gather its requirements.	
	KCS 554.2 Design a solution of the problem using latest tools &techniques.	
	KCS 554.3 Develop a project using latest technology.	
	KCS 554.4 Develop professional skills and critical thinking to prepare for major project.	
	KCS 554.5 Demonstrate an ability to present project works to the Evaluators.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KCS 601	**Subject Name:** Software Engineering	
Course Outcomes	**KCS 601.1** Explain various software characteristics and analyze different software Development Models.	
	KCS 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.	
	KCS 601.3 Compare and contrast various methods for software design.	
	KCS 601.4 Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing.	
	KCS 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 2022-23
Subject Code: KIT 601	**Subject Name:** Data Analytics	
Course Outcomes	**KIT 601.1** Discuss various concepts of data analytics pipeline.	
	KIT 602.2 Apply classification and regression techniques.	
	KIT 602.3 Explain and apply mining techniques on streaming data.	
	KIT602.4 Compare different clustering and frequent pattern mining algorithms.	
	KIT602.5 Describe the concept of R programming and implement analytics on Big data using R.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KCS 603		**Subject Name:** Computer Networks
Course Outcomes		**KCS 603.1** Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices andtransmission media, Analog and digital data transmission.
		KCS 603.2 Apply channel allocation, framing, error and flow controltechniques.
		KCS 603.3 Describe the functions of Network Layer i.e. logical addressing, subnetting & Routing Mechanism.
		KCS 603.4 Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flowcontrol mechanism.
		KCS 603.4 Explain the functions offered by session and presentation layer and their Implementation.
		KCS 603.5 Explain the different protocols used at application layer i.e.HTTP, SNMP, SMTP, FTP, TELNET and VPN.

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KCS 061		**Subject Name:** Big Data
Course Outcomes		**KCS 061.1** Demonstrate knowledge of Big Data Analytics concepts and itsapplications in business.
		KCS 061.2 Demonstrate functions and components of Map ReduceFramework and HDFS.
		KCS 061.3 Discuss Data Management concepts in NoSQL environment.
		KCS 061.4 Explain process of developing Map Reduce based distributedprocessing applications.
		KCS0 061.5 Explain process of developing applications using HBASE, Hive, Pig etc.

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KIT 061	**Subject Name:** Blockchain Architecture Design	
Course Outcomes	**KIT 061.1** Describe the basic understanding of Blockchain architecture along with its primitive.	
	KIT 061.2 Explain the requirements for basic protocol along withscalability aspects.	
	KIT 061.3 Design and deploy the consensus process using frontend and backend.	
	KIT 061.4 Apply Blockchain techniques for different use caseslike Finance, Trade/Supply and Government activities.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KOE 069	**Subject Name:** Understanding the human being comprehensively-Human aspirations & its fulfillment	
Course Outcomes	**KOE 069.1** Having the clarity about human aspirations, goal, activities and purpose of life.	
	KOE 069.2 Understand the harmony in nature/existence and participation of human being in the nature/existence.	
	KOE 069.3 Develop the understanding of human tradition and its various components.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KNC 601	**Subject Name:** Constitution of India, Law and Engineering	
Course Outcomes	**KNC 601.1** Identify and explore the basic features and modalitiesabout Indian constitution.	
	KNC 601.2 Differentiate and relate the functioning of Indian parliamentary system at the center and state level.	
	KNC 601.3 Differentiate different aspects of Indian Legal Systemand its related bodies.	
	KNC 601.4 Discover and apply different laws and regulations related to engineering practices.	
	KNC 601.5 Correlate role of engineers with different organizations and governance models.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KCS 651	**Subject Name:** Software Engineering Lab	
Course Outcomes	**KCS 651.1** Identify ambiguities, inconsistencies and incompleteness from a requirements specification and state functional and non-functional requirement.	
	KCS 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.	
	KCS 651.3 Draw a class diagram after identifying classes and association among them.	
	KCS 651.4 Graphically represent various UML diagrams, and associations among them and identify the logical sequence of activities undergoing in a system, and represent them pictorially.	
	KCS 651.5 Able to use modern engineering tools for specification, design, implementation and testing.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KIT 651	**Subject Name:** Data Analytics Lab	
Course Outcomes	**KIT 651.1** Implement numerical and statistical analysis on various data sources.	
	KIT 651.2 Apply data preprocessing and dimensionality reductionmethods on raw data.	
	KIT 651.3 Implement linear regression technique on numeric datafor prediction.	
	KIT 651.4 Execute clustering and association rule mining algorithms on different datasets.	
	KIT 651.5 Implement and evaluate the performance of KNN algorithm on different datasets.	

Branch: Information Technology	Year: III	Semester: EVEN 2022-23
Subject Code: KCS 653	**Subject Name:** Computer Networks Lab	
Course Outcomes	**KCS 653.1** Simulate different network topologies.	
	KCS 653.2 Implement various framing methods of Data Link Layer.	
	KCS 652.3 Implement various Error and flow control techniques.	
	KCS 652.4 Implement network routing and addressing techniques	
	KCS 652.5 Implement transport and security mechanisms	