

COURSE OUTCOMES

K.D.K. COLLEGE OF ENGINEERING	
DEPARTMENT OF INFORMATION TECHNOLOGY	
COURSE OUTCOME	
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT301T Applied Mathematics-III	
After studying this subject, the students will be able to	
CO301.1	Understand the basics of Laplace, Fourier and Z transforms and apply them for solving differential equations, integral equations and difference equations.
CO301.2	Analyze real world scenarios to recognize when matrices and probability are appropriate, formulate problems about the scenarios, creatively model these scenarios (using technology, if appropriate) in order to solve the problems using multiple approaches.
CO301.3	Organize, manage and present data in a clear and concise manner.
CO301.4	Develop an ability to identify, formulate, and/or solve real world problems.
CO301.5	Understand the impact of scientific and engineering solutions in a global and societal context.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT302T Programming Logic & Design using 'C'	
After studying this subject, the students will be able to	
CO302.1	Acquire fundamental knowledge of c programming language.
CO302.2	Apply Array, functions and pointer techniques in program development.
CO302.3	Implement programs on sub routines / functions, structure, union.
CO302.4	Apply knowledge of console programming for file handling and real time applications.
CO302.5	Apply knowledge of memory management related research and graphics for business applications and area.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT302P Programming Logic & Design using 'C'	
After studying this subject, the students will be able to	
CO302.1	Acquire fundamental knowledge of c programming language.
CO302.2	Apply Array, functions and pointer techniques in program development.
CO302.3	Able to implement structured programs for complex data.
CO302.4	Apply knowledge of console programming for file handling and real time applications.
CO302.5	Apply knowledge of memory management and graphics for business applications & related research area.
CO302.6	Acquire knowledge of advanced concept in c like BIOS, TSR etc.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT303T Digital Electronics and Fundamental of Microprocessor	
After studying this subject, the students will be able to	
CO303.1	Understand the importance and necessity of logic gates also determine and solve the Boolean expression.
CO303.2	Solve various types of K-map in SOP & POS form.
CO303.3	Apply the basic knowledge related to design of Combinational Circuits
CO303.4	Apply the basic knowledge related to design of Sequential Circuits, Flip-flop, Counters.
CO303.5	Understand of necessity of Instructions, types of addressing modes and instruction sets, programming for microprocessor.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT303P Digital Electronics & Fundamental of Microprocessor	

COURSE OUTCOMES

After studying this subject, the students will be able to	
CO303.1	Apply the basic concept of logic gates and their use in combinational and sequential circuits.
CO303.2	Use and implements Universal logic gates.
CO303.3	Design and Implement basic circuits required in computer system.
CO303.4	Develop and execute assembly language programs.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT304T Emerging Trends in Information Technology	
After studying this subject, the students will be able to	
CO304.1	Create a business case for an emerging information technology.
CO304.2	Identify factors affecting the successful adoption of new information technologies.
CO304.3	Identify the key attributes, business benefits, risks, and cost factors of a new technology
CO304.4	Know how to effectively use advanced search and selection metrics for identifying and selecting new technology.
CO304.5	Describe technology trends that presently drive or are expected to drive the selection of new technologies over the next decade.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT305T System Programming	
After studying this subject, the students will be able to	
CO305.1	Understand the basics of system programs like editors, compiler, assembler, linker, loader, interpreter and MACRO.
CO305.2	Understand & Design of object code generation through translator (assembler).
CO305.3	Understand the interlinking functions in program with MACRO & its processing.
CO305.4	Understand how linker and loader create an executable program from an object module created by assembler and compiler.
CO305.5	Understand the various phases of compiler and various drivers in UNIX and difference between UNIX and Windows operating system.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT306P Software Lab -1(Basics of Hardware and Microprocessor)	
After studying this subject, the students will be able to	
CO306.1	Understand the basic organization, working and applications of personal computers.
CO306.2	Apply the different tools and utilities of the operating system.
CO306.3	Demonstrate the working of computer system and its peripheral.
CO306.4	Design the network.
CO306.5	Assembled computer system
CO306.6	Understand the different types Viruses, Spyware and Malware.
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT307T Universal Human Values	
After studying this subject, the students will be able to	
CO307.1	Students are expected to become more aware of themselves, and their surroundings (family, society, nature).
CO307.2	Students would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.
CO307.3	They would have better critical ability.
CO307.4	They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society).
THIRD SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT308T Environmental Science	

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After studying this subject, the students will be able to	
CO308.1	Identify different types of air pollutions as well as explain their causes, detrimental effects on environment and effective control measures.
CO308.2	Recognize various sources of water pollutants and interpret their causes and design its effective control measure.
CO308.3	Illustrate various types of pollutants and waste management.
CO308.4	Analyze various social issues related to environment and challenges in implementation of environmental laws.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT401T Discrete Mathematics and Graph Theory	
After studying this subject, the students will be able to	
CO401.1	Apply graph theory models of data structures and state machines to solve problems of connectivity and constraint satisfaction.
CO401.2	Gain an introduction into how mathematical models for engineering are designed, analyzed and implemented in industry and organizations
CO401.3	Reason mathematically about basic data types and structures (such as numbers, sets, graphs, and trees) Used in computer algorithms and systems; distinguish rigorous definitions and conclusions from merely plausible ones.
CO401.4	Analyze real world scenarios to recognize when Logic, sets, functions are appropriate, formulate problems about the scenarios, creatively model these scenarios (using technology, if appropriate) in order to solve the problems using multiple approaches
CO401.5	Apply knowledge of mathematics, physics and modern computing tools to scientific and engineering problems
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT402T Data Structures and Program Design	
After studying this subject, the students will be able to	
CO402.1	Understand the concept of Dynamic memory management, data types, algorithms, Big O notation and various Sorting Algorithms.
CO402.2	Understand basic data structures such linked lists, stacks and queues.
CO402.3	Implement stacks and Queues using Linked List.
CO402.4	Solve problem involving graphs, trees and heaps.
CO402.5	Describe the hash function and concepts of collision and its resolution methods.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT402P Data Structures and Program Design	
After studying this subject, the students will be able to	
CO402.1	Develop algorithmic foundations for solving problems and execute programs.
CO402.2	Apply knowledge of basic data structures on linear and non-linear programs data Structure.
CO402.3	Analyze and compare algorithms for efficiency.
CO402.4	Develop knowledge of applications of data structure for insertion, deletion, searching and sorting
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT403T Object Oriented Programming System	
After studying this subject, the students will be able to	
CO403.1	Understand the basic concept & properties/features of OOP.
CO403.2	Understand and implement the concept of constructor & destructor in C++.
CO403.3	Implement concept Inheritance using C++.
CO403.4	Understand & Implement concept polymorphism using C++.
CO403.5	Implement file handling & Exception Handling in C++.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	

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BEIT403P Object Oriented Programming System	
CO403.1	Understand the basic concept & properties/features of OOP
CO403.2	Understand and implement the concept of constructor & destructor in c++
CO403.3	Implement concept Inheritance using C++
CO403.4	Understand & Implement concept polymorphism using C++
CO403.5	Implement file handling & Exception Handling in C++
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT404T Computer Architecture Organization	
After studying this subject, the students will be able to	
CO404.1	Identify the basic functional units, various Buses and addressing modes.
CO404.2	Apply fundamental concept for executions and sequencing of control signals.
CO404.3	Compare Hardwired and Micro programmed Control unit and write the control steps/sequence of microprogramming.
CO404.4	Apply the Knowledge of computer arithmetic algorithm and solve the problems.
CO404.5	Design and implement various memory IC'S, evaluate the main memory address.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT405T Introduction of Computer Network	
After studying this subject, the students will be able to	
CO405.1	Understand the fundamental of computer network.
CO405.2	Comparison of the OSI & the TCP/IP Reference Models.
CO405.3	Distinguish between the different types of bit errors and can explain the concept of bit redundancy and how it is generally achieved in the facilitation of error detection and the main methods of error correction.
CO405.4	Understand routing principles and algorithms, such as distance vector and link state. And inter networking principles and how the Internet protocols IP, IPv6 and ICMP operate.
CO405.5	Demonstrate an understanding of the significance and purpose of protocols and standards.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT406T Operating System	
After studying this subject, the students will be able to	
CO406.1	Describe the important computer system resources and the role of operating system in their management policies and algorithms.
CO406.2	Understand the process management policies and scheduling of processes by CPU.
CO406.3	Evaluate the requirement for process synchronization and coordination handled by operating system.
CO406.4	Describe and analyze the memory management and its allocation policies
CO406.5	Identify use and evaluate the storage management policies with respect to different storage management technologies.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT407P Software Lab II	
After studying this subject, the students will be able to	
CO407.1	Able to apply the principles python programming.
CO407.2	Write clear and effective python code.
CO407.3	Create applications using python programming.
CO407.4	Implementing database using SQLite.
CO407.5	Access database using python programming.

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CO407.6	Develop web applications using python programming.
FOURTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT408T Consumer Affairs	
After studying this subject, the students will be able to	
CO408.1	Understand the basic concept and importance of Consumer Education.
CO408.2	Grasp the concepts related to Consumer Education and Protection.
CO408.3	Analyze the regulations and redressal mechanism system.
CO408.4	Aware of consumer movements.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT501T Software Engineering & Project Management	
After studying this subject, the students will be able to	
CO501.1	Acquire Knowledge of software engineering methods, practices, process models and application.
CO501.2	Understand measure, metrics and indicators and learn various Modeling Approach
CO501.3	Analyze and extract requirements for the product and translate these into documented design using different modeling techniques.
CO501.4	Learn software testing methods and types, And to understand debugging concept with various testing methods.
CO501.5	Understand project management, and to know software risks and principles of quality management, further the concept of re-engineering and reverse engineering.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT501P Software Engineering & Project Management	
After studying this subject, the students will be able to	
CO501.1	Learn the concept of requirement gathering & to learn the development of use case model
CO501.2	Understanding the object creation and the interaction between various objects & their collaboration
CO501.3	Understanding various states of objects & different component views
CO501.4	Learning the development of various UML models & understanding the complete design phase.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT502T Design and Analysis of Algorithms	
After studying this subject, the students will be able to	
CO502.1	Illustrate different approaches for analysis and design of efficient algorithms and Analyze performance of various algorithms using asymptotic notations.
CO502.2	Determine and Apply various divide & conquer strategies and greedy approaches for solving a given computational problem.
CO502.3	Demonstrate and Solve various real time problems using the concepts of dynamic programming.
CO502.4	Make use of backtracking and graph traversal techniques for solving real –world problems.
CO502.5	Recall and Classify the NP -hard and NP-complete problems.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT503T Java Programming	
After studying this subject, the students will be able to	
CO503.1	Understand the basic data types and control flow constructs using J2SE.
CO503.2	Make use of various Object Oriented Concepts like inheritance, data hiding, Exception Handling etc., to implement various programs in Java.
CO503.3	Understand the concepts of Multi threading & Multi programming.

COURSE OUTCOMES

CO503.4	Implementation of String class, Date class, Time class and Calendar class in various micro projects.
CO503.5	Understand the concepts of Collections Framework.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT503P Java Programming	
After studying this subject, the students will be able to	
CO503.1	Understand the basic data types and control flow constructs using J2SE.
CO503.2	Make use of various Object Oriented Concepts like inheritance, data hiding, Exception Handling etc., to implement various programs in Java.
CO503.3	Understand the concepts of Multi threading & Multi programming.
CO503.4	Implementation of String class, Date class, Time class and Calendar class in various micro projects.
CO503.5	Understand the concepts of Collections Framework.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT504T Theory of Computation	
After studying this subject, the students will be able to	
CO504.1	Define what a Regular Language is and construct a finite state machine for it.
CO504.2	Construct equivalent representations among Regular Languages, Regular Expressions, and Regular Grammars.
CO504.3	Formulate the equations for push down automaton.
CO504.4	Identify the characteristics of problems for which no computational solution exists.
CO504.5	Understand the concepts of P vs. NP vs. NP-complete.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT505T.1 Gaming Architecture & Programming	
After studying this subject, the students will be able to	
CO505.1.1	Discuss the concepts of Game design and development.
CO505.1.2	Design the processes, and use mechanics for game development.
CO505.1.3	Explain the Core architectures of Game Programming.
CO505.1.4	Use Game programming platforms, frameworks and engines.
CO505.1.5	Create interactive Games.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT505T.2 High Performance Computing Architecture	
After studying this subject, the students will be able to	
CO505.2.1	Learn the fundamentals of computer architecture, pipelining and multiprocessing environment.
CO505.2.2	Understand the different levels of parallelism.
CO505.2.3	Learn the design Issues in Parallel Computing environment.
CO505.2.4	Understand the importance of parallel programming.
CO505.2.5	Learn the impact of High-Performance Computing in recent developments.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT505T.3 HUMAN COMPUTER INTERFACE	
After studying this subject, the students will be able to	
CO505.3.1	Relate the importance of the Graphical user interface and popularity of the graphics.
CO505.3.2	Interpret the importance of human characteristics in design and how people interact with computers.
CO505.3.3	Articulate and apply common design principles for making good decisions in the design of user interfaces.

COURSE OUTCOMES

CO505.3.4	Annotate various kinds of windows and their characteristics and have an ability to select the proper device based and screen based controls.
CO505.3.5	Apply different components that are available in the screens and various interaction devices which are used to interact with the computer.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT506P Software Lab (Basics of AR & VR/Web Technology)	
CO506.1	Create and deploy AR and VR applications.
CO506.2	Learn the physical principles of VR.
CO506.3	Create a comfortable, high-performance VR application using Unity.
CO506.4	Develop dynamic web pages using JavaScript (client side programming).
CO506.5	Develop web pages using HTML, DHTML and Cascading Styles Sheets.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT507T Effective Technical Communication	
After studying this subject, the students will be able to	
CO507.1	Acquire knowledge of structure of language.
CO507.2	Be able to face competitive exams and the interview process and can become employable.
CO507.3	Develop business writing skills.
CO507.4	Become familiar with technology enabled communication and can develop technical and scientific writing skills.
FIFTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT508T Yoga and Meditation	
After studying this subject, the students will be able to	
CO508.1	Learn the rules, fundamentals, skills & strategies of yoga.
CO508.2	Teach various asanas (postures) using hatha yoga & the Iyengar method.
CO508.3	Learn breathing techniques.
CO508.4	Improve strength, flexibility and the sense of well-being.
CO508.5	Increase relaxation of body and soul.
SIXTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT601T Database Management System	
After studying this subject, the students will be able to	
C601.1	Analyze and design Database Management System using ER model
C601.2	Apply Indexing concepts in database languages
C601.3	Implement database queries using database languages
C601.4	Create normalized database design using normal forms
C601.5	Apply Transaction Management concepts in real -time situations
SIXTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT601P Database Management System Lab	
After studying this subject, the students will be able to	
C601.1	Analyze and design Database Management System using ER model
C601.2	Apply Indexing concepts in database languages
C601.3	Implement database queries using database languages
C601.4	Create normalized database design using normal forms

COURSE OUTCOMES

C601.5	Apply Transaction Management concepts in real -time situations
SIXTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT602T Artificial Intelligence & Machine Learning	
After studying this subject, the students will be able to	
C602.1	Understand the concept of Artificial Intelligence
C602.2	Familiarize with Knowledge based AI systems and approaches
C602.3	Apply the aspect of Probabilistic approach to AI
C602.4	Identify the Neural Networks and NLP in designing AI models
C602.5	Recognize the concepts of Machine Learning and its deterministic tools
SIXTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT602P Artificial Intelligence & Machine Learning Lab	
After studying this subject, the students will be able to	
C602.1	Understand the concept of Artificial Intelligence
C602.2	Familiarize with Knowledge based AI systems and approaches
C602.3	Apply the aspect of Probabilistic approach to AI
C602.4	Identify and apply Neural Networks and NLP in designing AI models
C602.5	Recognize the concepts of Machine Learning and its deterministic tools
SIXTH SEMESTER B. TECH. INFORMATION TECHNOLOGY	
BEIT603T.1 Cluster and Grid Computing	
After studying this subject, the students will be able to	
C603.1	Learn the fundamentals of the cluster computing environment.
C603.2	Understand the different features of clustering systems.
C603.3	Learn the fundamentals of the grid computing environment.
C603.4	Understand different features of grid systems.
C603.5	Adopt basic services like resource management, process scheduling, etc.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT701T DATA WAREHOUSING AND MINING	
After studying this subject, the students will be able to	
C701T.1	Design a Data Mart, Schema and Data Warehouse for any organization.
C701T.2	Solve basic statistical calculations on data and describe the aspect of Data Pre-processing.
C701T.3	Apply fundamental knowledge of Multidimensional Schemes suitable for data warehousing.
C701T.4	Analyze various data mining functionalities and Apply the concept of data mining algorithms and technique for designing data mining systems
C701T.5	Illustrate fundamental concept of frequent Item sets, Closed Items sets of data mining and various kinds of Association Rules.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT701P DATA WAREHOUSING AND MINING	
After studying this subject, the students will be able to	
C701P.1	Apply fundamental concept of Weka Tool and data mining techniques.
C701P.2	Apply basic concept of data preprocessing an evaluate operations for Numerical Data.
C701P.3	Apply and execute the classification rule for various algorithms.
C701P.4	Analyze and apply Association rules on data set, evaluate the efficiency of algorithm.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	

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BTIT702T.1 ELECTIVE-IV DEEP LEARNING	
After studying this subject, the students will be able to	
C702T-1.1	Understand basic of deep learning algorithms.
C702T-1.2	Represent feed forward Neural Network
C702T-1.3	Evaluate the performance of different deep learning models with respect to the optimization, bias variance trade-off, over fitting and under fitting.
C702T-1.4	Apply the convolution networks in context with real world problem solving.
C702T-1.5	Apply recurrent neural networks in context with real world problem solving.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT702T.2 Elective-IV Cryptography & Network Security	
After studying this subject, the students will be able to	
C702T-2.1	To understand basics of Cryptography and Network Security and classify the symmetric encryption techniques.
C702T-2.2	Understand, analyze and implement the symmetric key algorithm for secure transmission of data.
C702T-2.3	Acquire fundamental knowledge about the background of mathematics of asymmetric key cryptography and understand and analyze asymmetric key encryption algorithms and digital signatures.
C702T-2.4	Analyze the concept of message integrity and the algorithms for checking the integrity of data.
C702T-2.5	To understand various protocols for network security to protect against the threats in the networks
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT702T.3 Elective-IV Compiler Design	
After studying this subject, the students will be able to	
C702T-3.1	Define the compiler along with the phases and basic program in LEX
C702T-3.2	Understand the parser and its types i.e. Top-Down and Bottom-up parsers and construction of parsing table.
C702T-3.3	Implement program based on concept of type checking, parameter passing and Overloading.
C702T-3.4	Implement the concept of Code Optimizations and Code Generations.
C702T-3.5	Understand the concepts of Object Oriented in Compilers.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT702T.4 Elective-IV Salesforce	
After studying this subject, the students will be able to	
C702T-4.1	Develop skills in configuring and managing Salesforce orgs.
C702T-4.2	Understanding Salesforce Data Management
C702T-4.3	Implementing automation, security and debugging data.
C702T-4.4	Acquire programming skills in Apex, Salesforce's programming language.
C702T-4.5	Enable to extend and customize Salesforce to meet specific business quirements.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT703T.1 Elective-V Natural Language Processing	
After studying this subject, the students will be able to	
C703T-1.1	Understand the basic concepts and applications of Natural Language Processing (NLP)
C703T-1.2	Identify the challenges in NLP and evaluate the solutions to these challenges
C703T-1.3	Analyze and preprocess text data for NLP tasks
C703T-1.4	Apply different NLP techniques and algorithms such as text classification, information retrieval and extraction, syntactic and semantic analysis, and deep learning models

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C703T-1.5	Evaluate and compare different NLP techniques and algorithms using appropriate metrics
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT703T.2 Elective-V Big Data Analytics	
After studying this subject, the students will be able to	
C703T-2.1	Understand Concept, characteristics, types of big data
C703T-2.2	Build and maintain reliable, scalable, distributed systems with Apache Hadoop.
C703T-2.3	Apply Hadoop ecosystem components to solve real world problems.
C703T-2.4	Apply machine learning algorithm for big data analysis.
C703T-2.5	Implement Big Data Activities using Hive
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT703T.3 Elective-V Mobile Computing	
After studying this subject, the students will be able to	
C703T-3.1	To Understand the basic concepts of Wireless Communication with Cellular system.
C703T-3.2	To learn about GSM System with Cell layout, Radio, Network Switching and Operation subsystem, HLR & VLR.
C703T-3.3	To learn Wireless LAN with its Architecture and MAC Layer.
C703T-3.4	To learn Mobile IP, Dynamic Host Configuration Protocol, Mobile Ad hoc Networks.
C703T-3.5	To learn about TCP over Wireless Networks. with Wireless Application protocol.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT704T.1 Open Elective-II Python Programming	
After studying this subject, the students will be able to	
C704T-1.1	Understand and implement the basic concept of python programming language.
C704T-1.2	Develop Code and test conditional statement of moderate size using the python language.
C704T-1.3	Implement the concept of Function and modules in programming language
C704T-1.4	Understand and Implement the concept of object oriented programming in python programming language.
C704T-1.5	Know and demonstrate the working of files for good program design using python language.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT704T.2 Open Elective-II Java Programming	
After studying this subject, the students will be able to	
C704T-2.1	Understand the fundamentals of Java programming language and its application in software development.
C704T-2.2	Implement Java programming constructs such as variables, operators, control statements, loops, and arrays.
C704T-2.3	Design and implement object-oriented programs using inheritance, polymorphism, encapsulation, and abstraction concepts in Java.
C704T-2.4	Create and use classes, objects, and methods in Java programs.
C704T-2.5	Handle exceptions and use input/output techniques in Java programs.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT704T.3 Open Elective-II : Data Base Management System	
After studying this subject, the students will be able to	
C704T-3.1	Understand the basics of DBMS to analyze an information problem in the form of an Entity relation diagram and design an appropriate data model for it.
C704T-3.2	Demonstrate basics of File organizations and its types
C704T-3.3	Interpret functional dependencies and various normalization forms

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C704T-3.4	Perform basic transaction processing and management
C704T-3.5	Demonstrate SQL queries to perform CRUD (Create, Retrieve, Update, Delete) operations on database.
SEVENTH SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT705P Project	
After studying this subject, the students will be able to	
C705P.1	Apply technical and managerial skills for analysis, design, simulation & modeling of engineering problems.
C705P.2	Judge the time & finance management issues for task completion in a group with professional ethics.
C705P.3	Justify their work in a professional manner.
C705P.4	Enhance the skills of self-study and lifelong learning.
EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT801T.1: Elective-IV Social Networks	
After studying this subject, the students will be able to	
C801T-1.1	Learn social networks , its types and representation
C804T-1.2	Understand weak ties, strong and weak relationships , homophily and calculate
C804T-1.3	Analyse links
C804T-1.4	Understand Power Laws and Rich-Get-Richer Phenomena
C804T-1.5	Understand Small World Phenomenon
EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT801T.2: Elective-VI Reinforcement Learning	
After studying this subject, the students will be able to	
C801T-2.1	Understand Bandit algorithm and its mathematical formulation.
C804T-2.2	Use dynamic programming for reinforcement learning
C804T-2.3	Perform function approximation and apply LSM
C804T-2.4	Fit Q, DQN & Policy Gradient for Full RL
C804T-2.5	Use combinatorial models for complex problems
EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT801T.3: Elective-VI GPU Architectures and Programming	
After studying this subject, the students will be able to	
C801T-3.1	Understand conventional CPU architectures, their extensions for single instruction multiple data processing (SIMD)
C804T-3.2	Program in CUDA about data space & synchronization
C804T-3.3	Apply optimization on kernals, ththreads etc
C804T-3.4	Learn basics of OpenCL
C804T-3.5	Design an application using neural networks
EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY	
BTIT802T.1: Elective-VII Predictive Analytics - Regression and Classification	
After studying this subject, the students will be able to	
C802T-1.1	To understand predictive models, LSM, Normal equations and GMT
C802T-1.2	Understand regression models and infer its statistical inference
C802T-1.3	Check model assumptions and bias variance tradeoff.
C802T-1.4	Perform regression analysis in various programming languages
C802T-1.5	Apply regression models and classification for predictive analysis
EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY	

COURSE OUTCOMES

BTIT802T.2: Elective-VII Data Analytics with Python

After studying this subject, the students will be able to

C802T-2.1	Understand data analytics and Python fundamentals
C802T-2.2	Perform sampling using various methods and perform hypothesis test or ANOVA test
C802T-2.3	Fit linear regression model and calculate various errors
C802T-2.4	Apply ROC
C802T-2.5	Apply clustering and classification using python programming

EIGHT SEMESTER B. E. INFORMATION TECHNOLOGY

BTIT802T.3: Elective-VII Computer Vision

After studying this subject, the students will be able to

C802T-3.1	Understand 2-D Projective Geometry, homography
C802T-3.2	Understand camera and stereo geometry
C802T-3.3	Detect and match features
C802T-3.4	Process color and range in images
C802T-3.5	Apply clustering, classification and deep learning models