



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A) (An AUTONOMOUS Institution)

Approved by AICTE, New Delhi * Permanently Affiliated to JNTUK, Kakinada
Accredited by NBA* Accredited by NAAC A+ Grade with CGPA of 3.40
Recognized by UGC Under Sections 2(f) and 12(B) of the UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem, Gandepalli Mandal, Kakinada District - 533437, A.P
Ph. 99591 76665, Email: office@acet.ac.in, www.acet.ac.in

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Course Outcomes of B. Tech.IT First Year – First Semester

Course Name with Code	CO No.	Course Outcomes
INTRODUCTION TO PROGRAMMING	C114.1	Develop optimal problem-solving skills by understanding the computer basics, algorithms and flowcharts.
	C114.2	Make use of an appropriate control statement to optimize a program.
	C114.3	Develop modular programming using functions and dynamic memory allocation using pointers.
	C114.4	Solve complex problems using Arrays and Strings.
	C114.5	Utilize structure, union and file operations to handle heterogeneous data and files.
COMPUTER PROGRAMMING LAB	CO1	Develop the basic C programs in different environments.
	CO2	Utilize appropriate control structures, arrays and strings for problem solving.
	CO3	Develop modular programming skill.
	CO4	Apply pointers for dynamic memory allocation and file operations for file handling
	CO5	:Make use of structures and unions to handle heterogeneous data.



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DEPARTMENT OF INFORMATION TECHNOLOGY

1. Course Outcomes of B. Tech.IT First Year -Second Semester

Course Name with Code	CO No.	Course Outcomes
DATA STRUCTURES	C125.1	Illustrate time and space complexity for different searching and sorting algorithms
	C125.2	Demonstrate various operations on linked list
	C125.3	Explain different operations on stacks and its applications
	C125.4	Illustrate different operations on queue and its applications
	C125.5	Demonstrate the importance and various operation on non-linear data structures and hashing
DS LAB	CO1	Make us of iterative and recursive and recursive procedures for problem solving.
	CO2	Utilize appropriate searching and sorting techniques to search and sort elements.
	CO3	Implement various operations in linear data structures.
	CO4	Implement various operations in non- linear data structures.
	CO5	Apply the appropriate data structure to solve different types of applications.



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1. Course Outcomes of B. Tech. IT First Year – First Semester

COURSE NAME	CO NO.	Course Outcomes
English (C111)	C111.1	Identifying the life of people, culture and tradition interpreting the information, speaking English to elicit information, identifying the vocabulary and Nouns
	C111.2	Understanding the responsibility and values , conversing for expressing greetings and leave takings, usage of articles, prepositions
	C111.3	Remembering life and contributions of Stephen Hawking discuss about specific topics practice letter writing, CVs, E-mail etiquette, application of verb forms
	C111.4	Understanding the life of Wangari Maathai, Role plays, use of adjectives and adverbs, vocabulary
	C111.5	Understanding way of life and values,, Technical writing and presentation, Vocabulary, common errors
	C111.6	Understanding soft skills, recognize Scientific and Technical English
Mathematics-I (C112)	C112.1	Utilize mean value theorems to real life problems
	C112.2	Able to form differential equation from physical problems and to solve various first order differential equations.
	C112.3	Solve the differential equations related to various engineering fields
	C112.4	Familiarize with functions of several variables which is useful in optimization
	C112.5	Apply double integration techniques in evaluating areas bounded by region
	C112.6	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2-dimensional and 3-dimensional coordinate systems
Applied Physics (C113)	C113.1	Understand the concept of error and its analysis.
	C113.2	Compare the theory and correlate with experiment findings.
	C113.3	Understand and apply the fundamentals of wave optics.
	C113.4	Develop experimental skills on basic physics experiments.
PPSC (C114)	C114.1	To write algorithms and to draw flowcharts for solving problems, converts both to C program finally compile and debug the programs.
	C114.2	To use different operators, data types and write programs that use two-way/ multi-way selection.
	C114.3	To select the best loop construct for a given problem
	C114.4	To design and implement programs to analyze the different pointer applications
	C114.5	To decompose a problem into functions and to develop modular reusable code
	C114.6	To apply File I/O operation
PPSC Lab (C115)	C115.1	Gains Knowledge on various concepts of a C language.
	C115.2	Able design and development of C problem solving skills.
	C115.3	Able to design and develop modular programming skills.
	C115.4	Able to design and develop file programming skills
CE Workshop (C116)	C116.1	Identify, assemble and update the components of a computer
	C116.2	Configure, evaluate and select hardware platforms for the implementation and execution of computer applications, services and systems
	C116.3	Make use of tool for converting pdf to word and vice verse
	C116.4	Develop presentation, documents and small applications using productivity tools such as word processor, presentation tools, spreadsheets, HTML, LaTeX
English (C117)	C117.1	Articulate better pronunciation through stress or word accent, intonation, and rhythm.
	C117.3	Acting out about a consistent accent and intelligibility in their pronunciation of English by providing an opportunity for practice in speaking.
	C117.4	Experimenting the fluency in spoken English and neutralize mother tongue influence
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3. Course Outcomes of B. Tech. IT Second Year – First Semester

Course Name with Code	CO No.	Course Outcomes
Discrete Mathematics and Graph Theory (C211)	C211.1	Ability to apply mathematical logic to solve Problems
	C211.2	Understand sets, relations, functions and discrete Structures
	C211.3	Able to use logical notations to define and reason about fundamental mathematical concepts such as sets relations and functions
	C211.4	Able to formulate problems and solve recurrence Relations
	C211.5	Able to model and solve real world problems using graphs and trees
Mathematics-III	C212.1	Estimate the work done against a field, circulation and flux using vector calculus (L5)
	C212.2	Apply the Laplace transform for solving differential equations (L3)
	C212.3	Find or compute the Fourier series of periodic signals (L3)
	C212.4	Know and be able to apply integral expressions for the forwards and inverse Fourier
	C212.5	transform to a range of non-periodic waveforms (L3)
	C212.6	Identify solution methods for partial differential equations that model physical processes (L3)
Operating Systems	C213.1	Define the different types of computer architectures and various generations of Operating Systems, Services, functions of Operating System and System Calls
	C213.2	Define the concept of process and thread and analyse various CPU Scheduling Algorithms and compare their performance. Describe Inter process Communication and about Process Synchronization
	C213.3	Compare and contrast various memory management mechanisms
	C213.4	Apply various Page Replacement Techniques
	C213.5	Apply various file management systems, Disk Scheduling Algorithms and Discuss concepts of deadlocks, various techniques to handle deadlocks.
	C213.6	Demonstrate the various method of providing System Protection and System Security for windows and Linux
Object Oriented Programming through C++(C215)	C215.1	Classify object oriented programming and procedural programming
	C215.2	Understand and Apply the concepts of Classes & Objects, friend function , constructors & destructors in program design
	C215.3	Apply various forms of inheritance
	C215.4	Apply and analyze operator overloading and function overloading.
	C215.5	Understand dynamic memory management techniques using pointers
	C215.6	Apply generic programming with templates, file I/O and exception handling on various applications
Database Management Systems(C224)	C224.1	Describe a relational database and object oriented database and types of database
	C224.2	Create ,Maintain, Manipulate and fetch a relation database using Sql
	C224.3	Describe ER-MODEL for understand database design and understand more queries like join and aggregation,grouping and sub queries
	C224.4	Describe normalization for design the database
	C224.5	student able to understand issues in data storage and query processing
	C224.6	describe the management of data such as efficiency , privacy,security,ethical responsibility and strategic advantage
Database Management Systems Lab(C228)	C228.1	Understand, appreciate and effectively explain the underlying concepts of database technologies
	C228.2	Design and implement a database schema for a given problem-domain
	C228.3	Normalize a database
	C228.4	Populate and query a database using SQL DML/DDL commands.
	C228.5	Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS
	C228.6	Programming PL/SQL including stored procedures, stored functions, cursors, packages.
No SQL Lab	C217.1	learn about SQLite which is a relational database that is present in android and helps
	C217.2	the users by storing important information.
	C217.3	· Perform various operations on server less database SQLite
	C217.4	· implement a small, fast, self-contained, high-reliability, full-featured using SQL
	C217.5	database engine.
	C217.6	Use various applications
Object Oriented Programming through C++ Lab(C219)	C218.1	Develop skills to design and analyze simple linear and nonlinear data structures
	C218.2	Perform practical applications of data structures
	C218.3	Strengthen the ability to identify and apply the suitable data structure for the given real world problem
	C218.4	Apply the linear / non-linear data structure operations for a given problem based on the user needs
	C218.5	Gain knowledge in practical applications of data structures
	C218.6	Express the Engineering activities with effective presentation and report.
Constitution of India	C219.1	Understand historical background of the constitution making and its importance for
	C219.2	building a democratic India.
	C219.3	Understand the functioning of three wings of the government i.e., executive, legislative and judiciary.
	C219.4	Understand the value of the fundamental rights and duties for becoming good citizen of India.
	C219.5	· Analyze the decentralization of power between central, state and local selfgovernment.
	C219.6	· Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy.
Socially Relevant Project(C2210)	C2210.1	Express their ideas to solve and design a real world problems as project
	C2210.2	Analyze problem of real world problem for project design
	C2210.3	Use scientific reasoning to gather ideas
	C2210.4	Evaluate and interpret scientific reasoning of idea
	C2210.5	Design solutions to solve the ideas
	C2210.6	Use one or more creative tools to complete the project design



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4. Course Outcomes of B. Tech. IT Second Year – Second Semester

Course Name with Code	CO No.	Course Outcomes
Automata Theory and Compiler Design (C221)	C311.1	Distinguish various language processors and understands about structure of compiler, Lexical Analysis
	C311.2	Design Top down and Bottom up Parsers
	C311.3	Develop More powerful LR Parsers and Understands Syntax Directed Definitions and Syntax Directed Translations
	C311.4	Describe techniques of Intermediate Code Generator
	C311.5	Discuss about runtime environment concepts and code generator with illustration.
	C311.6	Apply various machine independent optimization techniques
Java Programming (C222)	C222.1	Develop java programs using basic programming constructs in java, and able to use Control structures in the program development
	C222.2	Experiment with Object Oriented Concepts like classes, objects.
	C222.3	Apply and create programs using Object Oriented Constructs such as Inheritance, interfaces, and exception handling.
	C222.4	Construct applications using code reusability and extend the code to enhance existing programs
	C222.5	Design programs using object oriented construct and handle any time of run time errors
	C222.6	Implement multithreading concepts in application development with database connectivity.
Managerial Economics and Financial Accountancy(C223)	C223.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product
	C223.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs
	C223.3	The pupil is also ready to understand the nature of different markets and Price Output
	C223.4	determination under various market conditions and also to have the knowledge of different Business Units
	C223.5	The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis
	C223.6	budgeting techniques for decision making
Principles of Software Engineering (C212)	C212.1	Ability to understand Software Development life cycle process Models
	C212.2	Student able to know various models in Agile
	C212.3	Student able to understand the requirement analysis and transform those requirements to executable code
	C212.4	Students will be able perform various life cycle activities like analysis ,design and implementation
	C212.5	Skills to perform to testing and execute the test cases
	C212.6	Skill to design ,Implement and execute test cases at integration level
Statistics with R (C224)	C225.1	List motivation for learning a programming language
	C225.2	Access online resources for R and import new function packages into the R workspace
	C225.3	• Import, review, manipulate and summarize data-sets in R
	C225.4	• Explore data-setsto create testable hypotheses and identify appropriate statistical tests
	C225.5	• Perform appropriate statistical tests using R ,
	C225.6	Create and edit visualizations with R
Java Programming Lab(C226)	C226.1	Evaluate default value of all primitive data type,
	C226.2	Demonstrate various operations using operator and expressions, experiment with various Control-flow and Strings.
	C226.3	Determine Class, Objects, Methods, Inheritance, Exception, Runtime Polymorphism, User defined Exception handling mechanism
	C226.4	Illustrate reusability of code using various inheritance techniques
	C226.5	Experiment with run time errors and handle exceptions.
	C226.6	Construct Threads, Event Handling, implement packages, developing applets
Unified Modeling Lab(C227)	C227.1	Explain the Case studies and design the Model.
	C227.2	Describe how design patterns solve design problems using usecase diagrams
	C227.3	Create design solutions using sequence diagram.
	C227.4	Create design solutions using component diagram
	C227.5	Create design solutions using state chart and activity diagram
	C227.6	Experiment with semaphores
FOSS LAB(C228)	C228.1	Demonstrate UNIX commands for file handling
	C228.2	process control
	C228.3	Construct regular expressions for pattern matching
	C228.4	apply the pattern to various filters for a specific task.
	C228.5	Analyze a given problem
	C228.6	d apply requisite facets of shell programming in order to devise a shell script to solve the problem
DISTRIBUTED TECHNOLOGIES- MONGODBC229)	C229.1	Install, configure and setup the drivers to use MongoDB with your programming language of choice
	C229.2	Gain an in-depth understanding of main features of MongoDB
	C229.3	their use cases
	C229.4	Retrieve data in the database using advanced querying
	C229.5	to build new types of applications for mobile, cloud
	C229.6	to build new types of applications for e-commerce and and social technologies



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5. Course Outcomes of B. Tech. IT Third Year – First Semester

Course Name with Code	CO No.	Course Outcomes
Computer Networks (C321)	C321.1	Classify various types of network topologies, protocols & enumerate the layers of the OSI model and TCP/IP Model.
	C321.2	Explain about multiplexing.
	C321.3	Apply Error Detecting & Correcting methods.
	C321.4	Identify collision detection and apply avoidance methods. Describe about various IEEE Standards
	C321.5	Discuss various types of routing and congestion control algorithms
	C321.6	Discuss about the client server communication
Design and Analysis of Algorithms (C325)	C323.1	Describe asymptotic notation used for denoting performance of algorithms, analyze the performance of a given algorithm and denote its time complexity using the asymptotic notation for recursive and non-recursive algorithms and Apply graph search algorithms to real world problems
	C323.2	Discuss and Solve problems using Divide and Conquer approach
	C323.3	Discuss and Solve problems using Greedy Algorithmic approach
	C323.4	Discuss and Solve problems using the Dynamic Programming approach
	C323.5	Discuss and Solve problems using Backtracking approach
	C323.6	Discuss and Solve Problems using Branch and Bound approach
Data Mining Techniques (C313)	C313.1	Identify the key processes of data mining, data warehousing and knowledge discovery process.
	C313.2	Understand the need and importance of preprocessing techniques
	C313.3	Analyse and deploy appropriate classification techniques
	C313.4	Analyze Advanced Classification algorithms
	C313.5	Analyze and evaluate performance of algorithms for Association Rules.
	C313.6	Cluster the high dimensional data for better organization of the data
DevOps (Job Oriented Course)(C314)	C314.1	Enumerate the principles of continuous development and deployment, automation of configuration management, inter-team collaboration, and IT service agility.
	C314.2	Describe DevOps & DevSecOps methodologies and their key concepts
	C314.3	Illustrate the types of version control systems, continuous integration tools, continuous monitoring tools, and cloud models
	C314.4	Set up complete private infrastructure using version control systems and CI/CD tools
	C314.5	Understand the concepts of Transaction Management and Concurrent execution of transactions. Solve the issues raised due to Concurrent execution of the Transactions.
	C314.6	Acquire the knowledge of maturity model, Maturity Assessment
Artificial Intelligence (Professional Elective – I)(C315)	C315.1	Understand the fundamental concepts in Artificial Intelligence
	C315.2	Analyze the applications of search strategies
	C315.3	problem reductions
	C315.4	Apply the mathematical logic concepts.
	C315.5	Develop the Knowledge representations in Artificial Intelligence
	C315.6	Explain the Fuzzy logic systems.
Data Mining Techniques with R Labb(C316)	C316.1	Extend the functionality of R by using add-on packages
	C316.2	Extract data from files and other sources and perform various data manipulation tasks on them.
	C316.3	Code statistical functions in R
	C316.4	Use R Graphics and Tables to visualize results of various statistical operations on data
	C316.5	Apply the knowledge of R gained to data Analytics for real life applications
Computer Networks Lab(C317)	C316.1	Know how reliable data communication is achieved through data link layer.
	C316.2	Suggest appropriate routing algorithm for the network.
	C316.3	Provide internet connection to the system and its installation.
	C316.4	Work on various network management tools
DevOps (Skill Oriented Course)(C318)	C317.1	Understand the why, what and how of DevOps adoption
	C317.2	Attain literacy on Devops
	C317.3	Align capabilities required in the team
	C317.4	Create an automated CICD pipeline using a stack of tools
EMPLOYABILITY SKILLS-(C319)	C318.1	Understand the corporate etiquette.
	C318.2	Make presentations effectively with appropriate body language
	C318.3	Be composed with positive attitude
	C318.4	Understand the core competencies to succeed in professional and personal life



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6. Course Outcomes of B. Tech. IT Third Year – Second Semester

Course Name with Code	CO No.	Course Outcomes
Cryptography and Network Security (C311)	C311.1	Tell about information security awareness and a clear understanding of its importance.
	C311.2	Review symmetric key cryptography by sharing key
	C311.3	Illustrate Asymmetric key cryptography by sharing information
	C311.4	Interpret digital signatures in documents and generate MAC using hashing functions
	C311.5	Review of network security designs using available secure solutions (such as PGP, SSL, IPsec, etc)
	C311.6	Relate security at network layer
Mobile Computing (C322)	C322.1	Illustrate the basic concepts, techniques, protocols related to GSM & GPRS architecture to perform requirement analysis
	C322.2	Summarize different Medium access control mechanisms
	C322.3	Explain the major concepts of mobile IP to improve the service quality of network
	C322.4	Explain the TCP protocol & the data bases issues in mobile environment & data delivery models
	C322.5	Analyze classification of data delivery mechanisms, data dissemination & broadcast models
	C322.6	Survey of Mobile Ad-hoc network protocols for distinguishing them from infrastructure-based networks.
Big Data Analytics (C325)	C323.1	Describe asymptotic notation used for denoting performance of algorithms, analyze the performance of a given algorithm and denote its time complexity using the asymptotic notation for recursive and non-recursive algorithms and Apply graph search algorithms to real world problems
	C323.2	Illustrate big data challenges in different domains including social media, transportation, finance and medicine
	C323.3	Use various techniques for mining data stream
	C323.4	Design and develop Hadoop
	C323.5	Identify the characteristics of datasets and compare the trivial data and big data for various applications
	C323.6	Explore the various search methods and visualization techniques
Fundamentals of Micro Processors and Micro Controllers (C324)	C324.1	Summarize the necessity of testing, debugging using program control flow and distinguish between types of testing and examine the concepts of Flowgraphs and Path Testing.
	C324.2	Apply transaction flow, data flow testing to unit and integration testing.
	C324.3	Interpret the concepts of transaction flow testing and experiment with the concepts of data flow testing in real-time situations
	C324.4	Compare state graph, transaction testing, and graph matrices for optimizing code.
	C324.5	Explain the designs of state graphs and graph matrices and apply them with an algorithmic view.
	C324.6	Analyze use of the software testing tools and apply them to resolve the problems in real time environment.
Machine Learning using Python Lab(C325)	C325.1	Implement procedures for the machine learning algorithms
	C325.2	Design and Develop Python programs for various Learning algorithms
	C325.3	Apply appropriate data sets to the Machine Learning algorithms
	C325.4	Develop Machine Learning algorithms to solve real world problems
Big Data Analytics lab (C326)	C326.1	Understand and implement the basics of data structures like Linked list, stack, queue, set and map in Java.
	C326.2	Demonstrate the knowledge of big data analytics and implement different file management task in Hadoop.
	C326.3	Understand Map Reduce Paradigm and develop data applications using variety of systems.
	C326.4	Analyze and perform different operations on data using Pig Latin scripts.
	C326.5	Illustrate and apply different operations on relations and databases using Hive.
Cryptography and Network Security Lab (C327)	C327.1	Apply the knowledge of symmetric cryptography to implement encryption and decryption using Caesar Cipher, Substitution Cipher, Hill Cipher
	C327.2	Demonstrate the different algorithms like DES, BlowFish, and Rijndael, encrypt the text "Hello world" using Blowfish Algorithm.
	C327.3	Demonstrate the different algorithms like DES, BlowFish, and Rijndael, encrypt the text "Hello world" using Blowfish Algorithm.
NATURAL LANGUAGE PROCESSING (Skill Oriented Course) (C328)	C328.1	Explore natural language processing (NLP) libraries in Python
	C328.2	Learn various techniques for implementing NLP including parsing & text processing
	C328.3	Understand how to use NLP for text feature engineerin
Employability skills-II (C329)	C329.1	Solve various Basic Mathematics problems by following different methods
	C329.2	Follow strategies in minimizing time consumption in problem solving Apply shortcut methods to solve problems
	C329.3	Confidently solve any mathematical problems and utilize these mathematical skills both in their professional as well as personal life
	C329.4	Analyze, summarize and present information in quantitative forms including table, graphs and formulas



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8. Course Outcomes of B. Tech.IT Fourth Year – Second Semester

Course Name with Code	CO No.	Course Outcomes
Seminar (C425)	C425.1	Students can understand the existing and latest technologies in the computer science domain.
	C425.2	They can characterize, evaluate various technologies in computer science and decide their area of interest
	C425.3	Students can able to improve their communication skills.
	C425.4	They can able prepare technical presentations.
	C425.5	Students can able to write technical reports.
	C425.6	Graduates will get an opportunity to improve their public speaking skills through knowledge sharing
Project (C426)	C426.1	identify and define problems in the area of computer science
	C426.2	Skills regarding Analyse the problem and developing designs
	C426.3	Selections of platform for development suitable to problem
	C426.4	Testing, Deployment , maintenance and documentation
	C426.5	Handle multidisciplinary projects
	C426.6	Engineering and project management