

Nimra College of Engineering & Technology Estd. By Nimra Educational Society (A Muslim Minority Society) Affiliated to JNTUK, Approved by AICTE, New Delhi, Permitted by Govt. of A.P. Nimra Nagar, Ibrahimpatnam, Vijayawada - 521 456, Krishna Dt., A.P., India. Ph : +91-866-2882010, Fax : +91-866-2881852 e-mail : principal_nimra@yahoo.co.in website : http://www.nimra.in

B.TECH -(CSE-DATA SCIENCE)

COURSE OUTCOMES FOR FIRST YEAR FIRST SEMESTER

| TITLE WITH | со | STATEMENT |
|-----------------------------------|------|--|
| | CO-1 | To understand social or transactional dialogues spoken by native speakers of English and |
| | CO-2 | identify the context, topic, and pieces of specific information. |
| COMMUNICAT | CO-3 | To ask and answer general questions on familiar topics and introduce oneself / others |
| IVE ENGLISH | | To employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific |
| | CO-4 | information |
| | CO-5 | To apply double integration techniques in evaluating areas bounded by region (L3) |
| | CO-1 | To utilize mean value theorems to real life problems (L3) |
| MATHEMATIC S. L. (Coloulus | CO-2 | To solve the differential equations related to various engineering fields (L3) |
| S-I (Calculus And Differential | CO-3 | To familiarize with functions of several variables which is useful in optimization (L3) |
| Equations) | CO-4 | To apply double integration techniques in evaluating areas bounded by region (L3) |
| Equations) | CO-5 | To will also learn important tools of calculus in higher dimensions. Students will become |
| | | Analyze the different types of composite plastic materials and interpret the mechanism of conduction in |
| _ | CO-1 | conducting polymers |
| APPLIED | CO-2 | Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new |
| CHEMISTRY | CO-3 | Summarize the preparation of semiconductors; analyze the applications of liquid crystals |
| _ | CO-4 | Design models for energy by different natural sources |
| | CO-5 | Obtain the knowledge of computational chemistry and molecular machines |
| PROGRAMMIN | CO-1 | Student will learn to write algorithms and to draw flowcharts for solving problems |
| G FOR | CO-2 | To select the best loop construct for a given problem |
| PROBLEM | CO-3 | To design and implement programs to analyze the different pointer applications |
| SOLVING USING C | CO-4 | To decompose a problem into functions and to develop modular reusable code |
| USING C | CO-5 | To apply File I/O operations |
| _ | CO-1 | Student will be able to Assemble and disassemble components of a PC |
| COMPUTER | CO-2 | various Linux operating system commands. |
| ENGINEERING | CO-3 | Recognize characters & extract text from scanned images, Create audio files and podcasts. |
| WORKSHOP | CO-4 | Student will have knowledge on Networking commands, Productivity tools like developing |
| | CO-5 | Demonstation and practive on LaTeX and produce professional pdf documents. |
| | CO 1 | Student shall have the ability understand the Vowels, Consonants, Pronunciation, Phonetic Transcription, |
| ENCLISH | 0-1 | |
| COMMUNICAT | CO-2 | Word stress- di-syllabic words, poly-syllabic words, weak and strong forms, contrastive stress (Homographs) |
| ION SKILLS | CO-3 | Stress in compound words ,rhythm, intonation ,accent neutralization |
| LABORATORY | | Listening to short audio texts and identifying the context and specific pieces of information toanswer a series of |
| | CO-4 | questions in speaking. |
| | CO-5 | Newspapers reading; Understanding and identifying key terms and structures useful for |
| | CO-1 | The students entering into the professional course have practically very little exposure to lab classes |
| CHEMISTRV | CO-2 | The experiments introduce volumetric analysis; redox titrations with different indicators |
| LAB | CO-3 | EDTA titrations; then they are exposed to a few instrumental methods of chemical analysis |
| | CO-4 | Thus at the end of the lab course, the student is exposed to different methods of chemical |
| PROGRAMMIN | CO-1 | By the end of the Lab, the student |
| G FOR | CO-2 | Gains Knowledge on various concepts of a C language. |
| PROBLEM | CO-3 | Able to draw flowcharts and write algorithms. |
| SOLVING | CO-4 | Able design and development of C problem solving skills. |
| USING 'C' LAB | CO-5 | Able to design and develop modular programming skills. |
| | | Malidiania linear af Engineer and Stadian Definition Scans and Investment Statischilder |
| | CO 1 | Stockholm and Rio Summit-Global Environmental Challenges: Global explosion effects |
| | 0-1 | Natural Resources: Natural resources and associated problems Biodiversity and its conservation: Definition: |
| ENVIRONMEN | CO-2 | genetic, species and ecosystem diversity |
| TAL SCIENCE | | classification - Value of biodiversity: consumptive use, productive use, social-Biodiversity at national and local |
| | CO-3 | levels |
| | CO-4 | Environmental Pollution: Definition, Cause, effects and control measures of Air pollution, |
| | a | Water pollution, Soil pollution, Noise pollution, Nuclear hazards Social Issues and the Environment: Urban |
| | CO-5 | problems related to energy - Water conservation, |
| | CO-1 | To develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6) |

| | CO-2 | To solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3) |
|------------------------|-------------|---|
| Mathematics-II | ~~ • | |
| - | CO-3 | To evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5) |
| | CO-4 | (L3) |
| - | CO-5 | To apply numerical integral techniques to different Engineering problems (L3) |
| | CO-1 | To Explain the need of coherent sources and the conditions for sustained interference (L2). |
| | | |
| Idoutify the | cold | Identify the applications of interference in engineering (L3). Analyze the differences between interference and differences with applications (L4). Illustrate the concept of polarization of light and its applications(L2). |
| applications of | 0-2 | To Explain various types of emission of radiation (L2). Identify the role of laser in engineering Explain the |
| interference in | CO-3 | working principle of optical fibers (L2). |
| engineering | CO-4 | To Describe the dual nature of matter (L1). Explain the significance of wave function (L2). |
| | | To Identify the role of Schrodinger's time independent wave equation in studying particle in one-dimensional |
| | CO-5 | infinite potential well (L3). Identify the role of classical and quantum free electron theory in the study of $a_{1}^{(1)}$ |
| | | Semester 2 Courses (1 Year 2 competer) |
| COURSE | | Semester-2Courses (1 fear 2 semester) |
| TITLE WITH | СО | STATEMENT |
| CODE | | To An ability to define different number systems, binary addition and subtraction. 2's complement |
| | CO-1 | representation and operations with this representation |
| - | 00-1 | To An ability to understand the different switching algebra theorems and apply them for logic |
| | CO-2 | functions. |
| - | | To An ability to define the Karnaugh map for a few variables and perform an algorithmic reduction |
| | CO-3 | of logic functions. |
| | | To Students will be able to design various logic gates starting from simple ordinary gates to complex |
| _ | CO-4 | programmable logic devices & arrays. |
| | | To Students will be able to design various sequential circuits starting from flip-flop to registers and |
| | CO-5 | counters. |
| | CO-1 | TO Develop essential programming skills in computer programming concepts like data types, containers |
| PYTHON | CO-2 | To Apply the basics of programming in the Python language |
| PROGRAMMIN | CO-3 | To Solve coding tasks related conditional execution, loops |
| G | | |
| - | <u>CO-4</u> | ToSolve coding tasks related to the fundamental notions and techniques used in object- oriented programming |
| | <u> </u> | To solve a graphics-based operating system interface that uses icons. |
| - | CO-2 | To Discuss the computational efficiency of the principal algorithms for sorting & searching |
| DATA | CO-3 | To Discuss the computational efficiency of the principal algorithms for sorting & searching |
| STRUCTURES | CO-4 | To Demonstrate different methods for traversing trees |
| | CO-5 | To Discuss about grapichcal therory |
| | CO-1 | TO Write, Test and Debug Python Programs |
| PYTHON | CO-2 | TO Use Conditionals and Loops for Python Programs |
| PROGRAMMIN | CO-3 | TO Use Conditionals and Loops for Python Programs |
| G LAB | CO-4 | TO Use Conditionals and Loops for Python Programs |
| | CO-5 | TO USE TE GRAPGIC THERORY OF PRORAMMING To find the wavelengths of different spectral lines in mercury spectrum using diffraction grating in normal |
| | | incidence configuration. Student will be able to determine the radius of curvature of a given plano convex lens |
| | CO-1 | by Newton's rings. |
| APPLIED PHYSICS LAP | CO-2 | To Measure the resistance of a semiconductor with varying temperature. |
| THISICSLAD | CO-3 | To find the wavelength of Laser light using diffraction grating. |
| - | CO-4 | To find the Resistivity of a Superconductor using four probe method & Meissner effect. |
| | CO-5 | To Determine of Hall voltage and Hall coefficient of a given semiconductor using Hall Effect. |
| | CO-1 | value in a given list |
| DATA | CO-2 | TO Write C program that implement Quick sort, to sort a given list of integers in ascending order |
| STRUCTURES | CO-3 | TO W rite a C program that uses functions to perform deletion operation on a singly linked lisT |
| LAB | CO-4 | TO Write C program that implement stack (its operations) using Linked list |
| ļ ļ | CO-5 | TO Write a C program to insert a node into a BST. |
| | CO 1 | To Understand historical background of the constitution making and its importance for building a democratic |
| | 0-1 | |
| CONSTITUTIO | <u>CO-2</u> | TO Understand the functioning of three wings of the government ie., executive, legislative and judiciary. |
| N OF INDIA (T) | CO-3 | TO Understand the value of the fundamental rights and duties for becoming good citizen of India. |
| [| CO-4 | TO Analyze the decentralization of power between central, state and local self-government |
| | CO 5 | I oApply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy |
| | 00-5 | or so for sustaining democracy. |

| Semester-3Courses (2 Year 1 semester) | | |
|---------------------------------------|-------------|--|
| COURSE TITLE WITH | 00 | ST A TEMENT |
| CODE | 0 | STATEMENT |
| | CO-1 | To Interpret the physical meaning of different operators such as gradient, curl and divergence |
| | cold | To Estimate the work done by against a field, circulation and fix using vector calculus Apply the Laplace |
| | CO-2 | To Find or compute the Fourier series of periodic signals (L2) |
| | 0-3 | To Know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of |
| | CO-4 | non-periodic waveforms |
| | | |
| | CO-5 | To Identify solution methods for partial differential equations that model physical processes |
| MATHEMATIC | CO-1 | To Demonstrate skills in solving mathematical problems |
| AL | CO-2 | To solve set theory Principle of Inclusion-Exclusion, Relations |
| FOUNDATIONS | CO-3 | To Demonstrate knowledge of mathematical modeling and proficiency in using mathematical solution |
| COMPUTER | CO-4 | To solve the recurrence relation and function of sequence |
| SCIENCES | CO-5 | ToManipulate and analyze data numerically and/or graphically using appropriate Software |
| | CO-1 | To Apply principles of NumPy and Pandas to the analysis of data |
| FUNDAMENTA | CO-2 | To Apply principles of NumPy and Pandas to the analysis of data |
| LS OF DATA | CO-3 | To Make use of various file formats in loading and storage of data. |
| SCIENCE | CO-4 | To Study data wrangling, Combining and Merging Data Sets |
| | CO-5 | To Show the results and present them in a pictorial format. |
| ODUCT | CO-1 | To Able to describe the basic concepts of Java such as operators, classes, objects inheritance, packages |
| OBJECI OIENTED | CO-2 | Enumeration and various keywords |
| PROGRAMMIN | CO-3 | To Apply the concept of exception handling and Input/ Output operations |
| G WITH JAVA | CO-4 | ToAble to design the applications of Java & Java applet |
| | CO-5 | ToAble to Analyze & Design the concept of Event Handling and Abstract Window Toolkit |
| | | |
| | CO-1 | To Introduction of the database management system Describe a relational database and object-oriented database |
| DATABASE | CO 2 | database design |
| MANAGEMEN | <u> </u> | To Apply the concept of exception handling and Input/ Output operations |
| T SYSTEMS | 005 | To Outline the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, |
| | CO-4 | and strategic advantage |
| | CO-5 | Apply Queries using Advanced Concepts of SQL |
| FUNDAMENTA | CO-1 | Perform various operations on numpy arrays |
| L OF DATA | CO-2 | Importing data from different file formats using pandas |
| SCIENCE LAB | CO-3 | Draw different types of charts using matplotlib |
| ODIECT | CO-1 | Evaluate default value of all primitive data type, Operations, Expressions, Control-flow, Strings. |
| OBJEC I ORIENTED | CO-2 | handling mechanism |
| PROGRAMMIN | CO-3 | Illustrating simple inheritance, multi-level inheritance, Exception handling mechanism |
| G WITH JAVA | | |
| LAB | CO-4 | Construct Threads, Event Handling, implement packages, developing applets |
| MANAGEMEN | CO-1 | TO Utilize SQL to execute queries for creating database and performing data manipulation operationS |
| T SYSTEMS | <u> </u> | Examine integrity constraints to build efficient databases |
| LAR | <u> </u> | Apply Queries using Advanced Concepts of SQL Puild PL/SQL programs including stored procedures, functions, surgers and triggers |
| | 0-4 | Bund PE SQE programs including stored procedures, functions, cursors and triggers. |
| | CO-1 | To Identify various concepts of mobile programming that make it unique from programming for other platforms |
| MOBILE APP | CO-2 | To Critique mobile applications on their design pros and cons |
| T | CO-3 | To Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces |
| - | GO 4 | |
| | <u>CO-4</u> | To Program mobile applications for the Android operating system that use basic and advanced phone |
| ESSENCE OF | <u> </u> | Characteristic the Indian Traditional Knowledge |
| INDIAN TRADITIONAL | CO-2 | Compare Modern Science with Indian Traditional Knowledge system |
| KNOWLEDGE | CO 4 | Analyze the role of Government in protecting the Traditional Knowledge |
| | 00-4 | Samestar_/Courses (2 Voar 2 competer) |
| COURSE | | |
| TITLE WITH | CO | STATEMENT |
| CODE | | Classify the concepts of data science and its importance Interpret the association of characteristics and through |
| | CO-1 | correlation and regression tools |
| Probability and | CO-2 | Make use of the concepts of probability and their applications. Apply discrete and |
| Statistics | | continuous probability distributions Infer the statistical inferential methods based on small and large sampling |
| | CO-3 | tests |
| | CO-4 | Design the components of a classical hypothesis test |

| Computer Organization | CO 1 | Develop a detailed understanding of computer systems. Cite different number systems, binary addition and |
|--------------------------|------|--|
| | 0-1 | subtraction, standard, floating-point, and micro operations |
| | CO-2 | Cite different number systems, binary addition and subtraction, standard, floating-point, and micro operations |
| | CO-3 | Develop a detailed understanding of architecture and functionality of central processing unit |
| | CO-4 | Exemplify in a better way the I/O and memory organization |
| | CO-5 | Illustrate concepts of parallel processing, pipelining and inter processor communication |
| | CO-1 | Summarize the architecture of data warehouse |
| Data | CO-2 | Apply different preprocessing methods, Similarity, Dissimilarity measures for any given raw data |
| warehousing and | CO-3 | Construct a decision tree and resolve the problem of model over fitting |
| Mining | CO-4 | Compare Apriori and FP-growth association rule mining algorithms for frequent item set |
| | CO-5 | Apply suitable clustering algorithm for the given data set generation |
| | CO-1 | Classify machines by their power to recognize languages. |
| Formal | | |
| Languages and | CO-2 | Summarize language classes & grammars relationship among them with the help of Chomsky hierarchy. |
| Automata | CO-3 | Employ finite state machines to solve problems in computing |
| Incory | CO-4 | Illustrate deterministic and non-deterministic machines |
| | 0-5 | Quote the merarchy of problems arising in the computer science |
| | CO-1 | The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product. |
| | | The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost |
| Demand and | CO-2 | combination of inputs. |
| demand | | The pupil is also ready to understand the nature of different markets and Price Output determination under |
| elasticities for a | CO-3 | various market conditions and also to have the knowledge of different Business Units |
| product. | CO-4 | The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis |
| | 0-4 | The Learner can able to evaluate various investment project proposals with the help of capital budgeting |
| | CO-5 | techniques for decision making |
| | | Implement basic concepts of R programming, and its different module that includes conditional, looping, lists, |
| | CO-1 | Strings, Functions, Frames, Arrays, and File programming. |
| R Programming | CO-2 | Implement the concepts of R Script to extract the data from data frames and file operations |
| Lab | CO-3 | Implement the various statistical techniques using R. |
| | CO-4 | Extend the functionality of R by using add-on packages |
| | CO-5 | Use R Graphics and Tables to visualize results of various statistical operations on data |
| Data Mining | CO-1 | Apply preprocessing techniques on real world datasets |
| using Python Lab | CO-2 | Apply apriori algorithm to generate frequent itemsets. |
| | CO-3 | Apply Classification and clustering algorithms on different datasets |
| Wah Application | CO-1 | Develop Single Fage Applications. |
| Development Lab | CO-2 | Store the data in MySOI |
| Development Eub | CO-4 | Get acquainted with the latest web application development trends in the IT industry |
| | CO-1 | Installing and configuring mongoDB in windows. |
| Mongo DB | CO-2 | Perform all database operations using mongoDB |
| g | CO-3 | Develop applications by integrating mongoDB with java/PHP. |
| | | Somestar 5 Courses (2 Veer 1 somestar) |
| | | Semester-SCourses (5 Year 1 semester) |
| TITLE WITH | CO | STATEMENT |
| CODE | | |
| | CO 1 | Language processor like compilers involves lexical analysis, where input is scanned, tokenized and recognized |
| | 0-1 | The parser analyses the syntax of a language using context-free grammars.deriving parse trees through |
| | | derivations while addressing issues like ambiguity ,left recursion, and left factoring. Parsing involes pre |
| COMDILED | CO-2 | processing steps back tracking and error |
| DESIGN | | |
| | CO 3 | A comprehensive overview of parsing techniques including LR and LL parsets shift reduce parsing, SLR |
| | 0-5 | Optimizing code through various techniques including storage management, procedure calls and flow analysis |
| | CO-4 | for efficient execution |
| | CO-5 | Challenges in code generator design encompass object code forms algorithms and register allocation |
| | CO-1 | TODescribe various generations of Operating System and functions of Operating System |
| | ~~ - | To Describe the concept of program, process and thread and analyze various CPU Scheduling Algorithms and |
| | CO-2 | compare their performance |
| | CO-3 | To Solve Inter Process Communication problems using Mathematical Equations by various methods |
| | CO-4 | and apply various Page Replacement Techniques |
| | CO-5 | To Outline File Systems in Operating System like UNIX/Linux and Windows |
| | CO-1 | To Explain the fundamental usage of the concept Machine Learning system • |
| | CO-2 | To Demonstrate on various regression Technique |
| MACHINE LEARNING | CO-3 | To Analyze the Ensemble Learning Methods |
| | - | |

| | CO-4 | To Illustrate the Clustering Techniques and Dimensionality Reduction Models in Machine Learning. |
|--|---|---|
| | CO-5 | To Discuss the Neural Network Models and Fundamentals concepts of Deep Learning |
| | | State and formulate the optimization problem, without and with constraints, by using design variables from an |
| _ | CO-1 | engineering design problem. |
| | CO 2 | To Apply classical optimization techniques to minimize or maximize a multi-variable objective function, |
| OPFN | 0-2 | without of with constraints, and arrive at an optimal solution |
| ELECTIVE-1 | CO-3 | To Apply and Solve transportation and assignment problem by using Linear programming Simplex method. |
| | | To Apply gradient and non-gradient methods to nonlinear optimization problems and use interior or exterior |
| | CO-4 | penalty functions for the constraints to derive the optimal solutions |
| | | To Formulate and apply Dynamic programming technique to inventory control, production planning, |
| | CO-5 | engineering design problems etc. to reach a final optimal solution from the current optimal solution. |
| - | CO-1 | To Ability to transform an Object-Oriented Design into high quality, executable code |
| - | CO-2 | To Skills to design, implement, and execute test cases at the Unit and Integration level |
| PROFESSIONA | | approach where system are built by assembling pre built reusable components facilitating efficient |
| L ELECTIVE-1 | CO-3 | design, development, and maintanence processes |
| - | - | Basic path testing is a white box testing technique that focuses on testing the independent path through the |
| | CO-4 | control flow graph of a program. |
| | CO-1 | To Implement various scheduling, page replacement algorithms and algorithms related to deadlocks |
| OPERATING | CO-2 | To Design programs for shared memory management and semaphores |
| COMPLER | CO-3 | To Determine predictive parsing table for a CFG |
| DESIGN LAB | CO-4 | To Apply Lex and Yacc tools |
| | CO-5 | To Examine LR parser and generating SLR Parsing table |
| | CO-1 | To Implement procedures for the machine learning algorithms |
| Machine | CO-2 | To Design and Develop Python programs for various Learning algorithms |
| learning lab | CO-3 | To Apply appropriate data sets to the Machine Learning algorithms |
| | CO-4 | To Develop Machine Learning algorithms to solve real world problems |
| | CO-5 | Write a program to Implement Support Vector Machines and Principle Component Analysis |
| | CO-1 | To Understand the why, what and how of DevOps adoption |
| SKILL | CO-2 | To Attain literacy on Devops |
| ORIENTED | CO-3 | To Align capabilities required in the team |
| COURSE-III | CO-4 | To Create an automated CICD pipeline using a stack of tools |
| | CO-5 | To Implementation of CICD with Java and open source stack |
| - | CO-1 | To Understand the corporate etiquette. |
| | (()) | To Make presentations effectively with appropriate body language |
| EMPLOYABILT | CO-2 | To brance presentations encentrely with appropriate body language |
| EMPLOYABILT - Y SKILLS-1 - | CO-2 CO-3 | To Be composed with positive attitude |
| EMPLOYABILT - Y SKILLS-1 - | CO-3 CO-4 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Solf Analysis Daveloping Positive Attitude Perception |
| EMPLOYABILT - Y SKILLS-1 - | CO-2 CO-3 CO-4 CO-5 CO 1 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mett or data warehouse for any organization |
| EMPLOYABILT Y SKILLS-1 | CO-3 CO-4 CO-5 CO-1 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques |
| EMPLOYABILT - Y SKILLS-1 - Data warehouse | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for |
| EMPLOYABILT Y SKILLS-1 Data warehouse and minning | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 | To be composed with positive attitude To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization tashigues to output applicing routput |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 | To Be composed with positive attitude To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 | To Be composed with positive attitude To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques Semester-6Courses (3 Year 2 semester) |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques StatEMENT |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques Semester-6Courses (3 Year 2 semester) STATEMENT |
| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO | To Be composed with positive attitude To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques Semester-6Courses (3 Year 2 semester) Toknow how to demonstrate different network models for networking links OSI. TCP/IP. B-ISDN. N-BISDN |
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| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-1 CO-2 CO-3 CO-1 CO-2 | To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques Semester-6Courses (3 Year 2 semester) STATEMENT Toknow how to demonstrate different network models for networking links OSI, TCP/IP, B-ISDN, N-BISDN and get knowledge about various communication techniques, methods and protocol standards. Analyze data link layer services, functions and protocols like HDLC and PPP. To compare and Classify medium access control protocols like ALOHA, CSMA, CSMA/CD, CSMA/CA, Polling, Token passing, FDMA, TDMA, CDMA protocols Discuss different transmission media and different server pravaligms like WWW, HTTP, FTP, e-mail and SNMP etc. To Illustrate big data challenges in different domains including social media,transportation, finance and medicine To Use various techniques for mining data stream To Design and develop Hadoop To Identify the characteristics of datasets and compare the trivial data and big data for various applications To Explore the various search methods and visualization techniques To Analyze the performance of a given algorithm, denote its time complexity using the asymptotic notation for meuning and no protocols and originand develop Hadoop To Identify the characteristics of datasets and compare the trivial data and big data for various applications To Explore the various search methods and visualization techniques |
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| EMPLOYABILT Y SKILLS-1 | CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO CO-1 CO-2 CO-3 CO-4 CO-3 CO-4 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-5 CO-1 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-2 CO-3 CO-2 CO-3 CO-2 CO-3 CO-2 CO-3 CO-2 CO-3 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-4 CO-2 CO-3 CO-4 CO-2 CO-3 CO-4 CO-4 CO-2 CO-3 CO-4 CO-4 CO-2 CO-4 CO-2 CO-3 CO-4 CO-4 CO-4 CO-4 CO-4 CO-4 CO-4 CO-4 | To Make presentations encentry with appropriate oogy tanguage To Be composed with positive attitude To Understand the core competencies to succeed in professional and personal life To Self – Analysis, Developing Positive Attitude, Perception. Design a data mart or data warehouse for any organization Extract knowledge using data mining techniques and enlist various algorithms used in information analysis of Data Mining Techniques Demonstrate the working of algorithms for data mining tasks such as association rule mining, classification for realistic data Implement and Analyze on knowledge flow application on data sets and Apply the suitable visualization techniques to output analytical results Overview, Basics and Importance of Cluster Analysis, Clustering techniques Semester-6Courses (3 Year 2 semester) Toknow how to demonstrate different network models for networking links OSI, TCP/IP, B-ISDN, N-BISDN and get knowledge about various communication techniques, methods and protocol standards. Analyze data link layer services, functions and protocols like ALDHA, CSMA, CSMA/CD, CSMA/CA, Polling, Token passing, FDMA, TDMA, CDMA protocols Discuss different transmission media and different switching networks To determine application layer services and client server protocols working with the client server paradigms like WWW, HTTP, FTP, e-mail and SNMP etc. To Illustrate big data challenges in different domains including social media, transportation, finance and medicine To Use various techniques for mining data stream To Design and develop Hadoop To Identify the characteristics of datasets and compare the trivial data and big data for various applications To Explore the various search methods and visualization techniques To Analyze the performance of a given algorithm, denote its time complexity using the asymptotic notation for recursive and non-recursive algorithms To List and describe various algorithm approaches and Solve problems using divide and conquer &greedy Method |

| Analysis of | | To Synthesize efficient algorithms dynamic programming approaches to solve in common engineering design |
|----------------------------|------|---|
| Algorithms | CO-3 | situations. |
| _ | | To Organize important algorithmic design paradigms and methods of analysis: backtracking, branch and bound |
| | CO-4 | algorithmic approaches |
| | CO-5 | To demonstrate NP- Completeness theory ,lower bound theory and String Matching |
| Proffesional | CO-1 | ToApply the concepts of project management & planning |
| Fromesional | CO-2 | To Apply the process to be followed in the software development life-cycle models |
| II/(Software | CO-3 | To Implement the project plans through managing people, communications and change |
| Project | CO-4 | To Conduct activities necessary to successfully complete and close the Software projects |
| Management) | CO-5 | To Implement communication, modeling, and construction & deployment practices in software development |
| | CO-1 | To Build static web pages using HTML 5 elements. |
| Mean Stack | CO-2 | To Apply JavaScript to embed programming interface for web pages and also to perform Client side validations. To Build a basic web server using Node.js, work with Node Package Manager (NPM) and recognize the need |
| Development | CO-3 | for Express.js. |
| | CO-4 | To Develop JavaScript applications using typescript and work with document database using MongoDB |
| | CO-5 | To Utilize Angular JS to design dynamic and responsive web pages |
| | CO-1 | To Know how reliable data communication is achieved through data link layer |
| Computer | CO-2 | To learn, Suggest appropriate routing algorithm for the network |
| Networks I ab | CO-3 | To Provide internet connection to the system and its installation |
| Iterworks Lab | CO-4 | Work on various network management tools |
| | CO-5 | To implement Broadcast tree by taking subnet of hosts, Operating System Detection using Nmap |
| | CO-1 | To learn how to implement data structures in java |
| | CO-2 | To know how to run a basic Word Count MapReduce program to understand MapReduce Paradigm |
| Big Data | CO-3 | ToInstall and Run Pig then write Pig Latin scripts to sort, group, join, project, and filter your data. |
| Analytics Lab | | |
| | CO-4 | To Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, functions, and indexes |
| | CO-5 | To Implement the following file management tasks in Hadoop |
| | CO-1 | To Implement deep neural networks to solve real world problems |
| Deen Learning | CO-2 | Learn to choose appropriate pre-trained model to solve real time problem |
| with Tensorflow | CO-3 | To Interpret the results of two different deep learning models |
| | CO-4 | To Implement word embeddings for IMDB dataset. |
| | CO-5 | To learn how to Build a Convolution Neural Network for simple image |
| | CO-1 | Develop professional web pages of an application using HTML elements like lists, navigations, tables, various form elements, embedded media which includes images, audio, video and CSS Styles. |
| Mean Stack | CO-2 | Utilize JavaScript for developing interactive HTML web pages and validate form data. |
| Technology | CO-3 | Build a basic web server using Node.js and also working with Node Package Manager (NPM). |
| | CO-4 | Build a web server using Express.js |
| | CO-5 | Make use of Typescript to optimize JavaScript code by using the concept of strict type checking. |
| | CO-1 | Problem solving |
| T | CO-2 | Communication |
| Employability Skills-II | CO-3 | Leadership |
| | CO-4 | Teamwork |
| | CO-5 | Management |