



TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

(UGC-Autonomous)

Approved by AICTE, Affiliated by JNTUH, Accredited by NAAC- 'A' Grade

Medbowli, Meerpet, Balapur, Hyderabad, Telangana- 500097

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Department AIML

I B.Tech I Semester Course Outcomes

Course Name: Mathematics – I

Course Code: 20MA1BS01		Academic Year: 2021-22
CO1	Represent the matrix form of a set of linear equations and to analyze the solution of the System of equations	
CO2	Reduce the Quadratic form to Canonical form.	
CO3	Analyze the nature of sequence and series.	
CO4	Apply the mean value theorems.	
CO5	Find the extreme values of functions of two variables with / without constraints..	

Course Name: Engineering Chemistry

Course Code: 20CH1BS02		Academic Year: 2021-22
CO1	Understand the atomic and molecular orbitals and conductivity of the materials using band theory	
CO2	Apply the principle of potable water for industrial and domestic purposes	
CO3	Extrapolate the knowledge of corrosion and electrochemical cells	
CO4	Identify the reaction mechanisms in the synthesis of different molecules in different conditions	
CO5	Gain the basic required skills to get clear concepts on spectroscopy and application to medical and other fields	

Course Name: Basic Electrical Engineering

Course Code: 20EE1ES01		Academic Year: 2021-22
CO1	Verify the basic Electrical circuits through different experiments.	
CO2	Evaluate the performance calculations of Electrical Machines and Transformers through various testing methods.	
CO3	Analyse the transient responses of R, L and C circuits for different input conditions.	
CO4	To determine the performance of different types of DC, AC machines and Transformers.	
CO5	To measure the electrical parameters for different types of DC and AC circuits using conventional and theorems approach.	

Course Name: Engineering Workshop

Course Code: C104		Academic Year: 2021-22
CO1	Demonstrate various machines, tools and their operations.	
CO2	Apply different workshop trades like fitting,carpentry,foundryand welding.	
CO3	Practice workshop trades like Tim smithy,Blacksmithy.	
CO4	Identify suitable tools for different trades of engineering processes including drilling,material removing,measuring, chiselling.	
CO5	Apply basic electrical engineering knowledge for housewiring practice.	

Course Name: English

Course Code: C105		Academic Year: 2021-22
CO1	Use English Language effectively in spoken and written communication.	
CO2	Comprehend the given texts and respond appropriately.	
CO3	Communicate confidently in various contexts and different cultures.	
CO4	Demonstrate basic proficiency in English including reading and listening comprehension, writing and speaking skills.	
CO5	Improve language proficiency to meet their academic and professional needs.	

Course Name: Engineering Chemistry Lab

Course Code: C106		Academic Year: 2021-22
CO1	Develop experimental skills to design new experiments in engineering	
CO2	Determination of parameters like hardness and chloride content in water	
CO3	Estimation of rate constant of a reaction from concentration – time relationships.	
CO4	Determination of physical properties like adsorption and viscosity	
CO5	Calculation of R _f values of some organic molecules by TLC technique	

Course Name: English Language and Communication Skills Lab

Course Code: C107		Academic Year: 2021-22
CO1	Employ the nuances of English language through audio-visual experience and group activities.	
CO2	Articulate a neutral accent of English for intelligibility by overcoming mother tongue influence.	
CO3	Develop the skill of using appropriate language in various speaking contexts.	
CO4	Take part in oral presentations using formal language.	
CO5	Improve speaking skills with clarity and confidence which in turn enhance their interpersonal skills.	

Course Name: Basic Electrical Engineering Lab

Course Code: C108		Academic Year: 2021-22
CO1	Verify the basic Electrical circuits through different experiments.	
CO2	Evaluate the performance calculations of Electrical Machines and Transformers through various testing methods.	
CO3	Analyse the transient responses of R, L and C circuits for different input conditions.	
CO4	To determine the performance of different types of DC, AC machines and Transformers.	
CO5	To measure the electrical parameters for different types of DC and AC circuits using conventional and theorems approach.	

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Department of AIML

I B.Tech II Semester Course Outcomes

Course Name: Mathematics – II

Course Code: 20MA2BS04		Academic Year: 2021-2022
CO1	Determine different types of ordinary differential equations of first order.	
CO2	Apply the concept of differential equation to real world problems.	
CO3	Apply the concept of multiple integrals to find areas, volumes.	
CO4	Evaluate the centre of mass and gravity for cubes, sphere and rectangular parallelepiped.	
CO5	Calculate the line, surface and volume integrals and converting them from one to another.	

Course Name: Applied Physics

Course Code: 20AP2BS05		Academic Year: 2021-2022
CO1	The student would be able to learn the fundamental concepts on Quantum behaviour of matter in its micro state	
CO2	The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre-optics enable the students to apply to various systems like communications, solar cell, photocells and so on	
CO3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.	
CO4	The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.	
CO5	The course helps the students to face problems and calculations in multidisciplinary areas.	

Course Name: Programming for Problem Solving

Course Code: 20CS2ES04		Academic Year: 2021-2022
CO1	Build the algorithm for the given unsolved problems	
CO2	Apply the concepts of Arrays, Pointers, Strings and structures to find the solution for given problem	
CO3	Apply the various pre-processor commands in a given different real time situations	
CO4	Dissect a problem into sub functionsto develop modular reusable code	
CO5	Demonstrate various searching and sorting techniques along with the complexity analysis	

Course Name: Engineering Graphics

Course Code: 20ME2ES02		Academic Year: 2021-2022
CO1	Apply the principles of Engineering Graphics to create Engineering Drawings of various geometric constructions, conic sections, curves and scales as per BISstandards.	
CO2	Construct orthographic projections for points, lines and planes in different quadrants and Auxiliary views.	
CO3	Draw the sectional views and true shape of sections of solids, by applying principles of projections.	
CO4	Draw the development of surfaces and intersections of solids in realtime situations.	
CO5	Develop isometric and orthographic views of the objects.	

Course Name: Applied Physics Lab

Course Code: 20AP2BS06		Academic Year: 2021-2022
CO1	Able to study the(V-I/P-I) characteristics of LED,LASER and Solar cell.	
CO2	Able to understand the energy gap of semiconductor diode.	
CO3	Correlate the theory of Hall effect with experiment by determining the Hall coefficient.	
CO4	Examine the Bending losses for different Optical fibre cables.	
CO5	Able to understand various concepts-Resonance,Time constant and Magnetic field using LCR, RC, Stewart and Gees circuits.	

Course Name: Programming for Problem Solving Lab

Course Code: 20CS2ES06		Academic Year: 2021-2022
CO1	Formulate The Algorithms for Simple Problems	
CO2	Translate the given algorithms to C program.	
CO3	Correct the logical errors found during program execution	
CO4	Make use of pointers in different types to modularize the code with functions.	
CO5	Apply the appropriate sorting techniques for the given list of elements.	

Course Name: Environmental Studies

Course Code: 20MC2ES07		Academic Year: 2021-2022
CO1	The students able to know basic concept of ecological perspective and the value of the environment.	
CO2	The students able to understand the significance of various natural resources and its management.	
CO3	The students able to demonstrate a comprehensive understanding of the world's biodiversity and the importance of its conservation	
CO4	The students able to identify different types of pollution and their control measures, discover effective methods of waste management and come out with best possible solutions.	
CO5	The students able to raise awareness about environmental laws and sustainable development.	

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II B.Tech I Semester Course Outcomes

Course Name: Discrete Mathematics

Course Code: 20MA3PC07		Academic Year: 2022-23
CO1	Construct precise mathematical proofs	
CO2	Predict logic and set theory to formulate precise statements.	
CO3	Apply the concept of group theory in given Algebraic System.	
CO4	Calculate linear recurrence relations using advanced counting techniques	
CO5	Explain graph theory in solving computing problems.	

Course Name: COMPUTER ORGANIZATION

Course Code: 20CS3PC01		Academic Year: 2022-23
CO1	Demonstrate the functional organization of digital computer system	
CO2	Classify different addressing modes for fetching machine instructions.	
CO3	Apply different data representation formats and perform arithmetic operations.	
CO4	Tell the design of input/output organization and memory organization of computer.	
CO5	Demonstrate the concepts of parallel processing, pipelining and inter processcommunication	

Course Name: BASIC PYTHON PROGRAMMING

Course Code: 20AI3PC01		Academic Year: 2022-23
CO1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.	
CO2	Demonstrate proficiency in handling Strings and File Systems.	
CO3	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.	
CO4	Interpret the concepts of Object-Oriented Programming as used in Python.	
CO5	Implement exemplary applications related to Network Programming, Web Services and Databases in Python	

Course Name: DATA STRUCTURES

Course Code: 20CS3PC03		Academic Year: 2022-23
CO1	Choose appropriate data structures to represent data items in real world problems with linear data structures.	
CO2	Apply dictionaries and hash tables to overcome problems of sequential data structures	
CO3	Develop the programs using trees for nonlinear data structures.	
CO4	Measure the computational efficiency of the principal algorithms for sorting and searching.	
CO5	Implement the graph traversal methods in nonlinear data structures	

Course Name: ANALOG AND DIGITAL ELECTRONICS

Course Code: 20CS3ES08		Academic Year: 2022-23
CO1	Identify the characteristics of various components and its utilization	
CO2	Compile the Construction, Operation and Characteristics of BJT, FET	
CO3	Make use of Boolean algebra Postulates to minimize combinational functions	
CO4	Design and analyze combinational and sequential circuits	
CO5	Categorize the logic families and realization of logic gates	

Course Name: IT WORKSHOP LAB

Course Code: 20CS3PC04		Academic Year: 2022-23
CO1	Gain the knowledge of computer hardware	
CO2	Install the system software in the specified hardware.	
CO3	Build the computer by assemble different parts and make sure of troubleshoots	
CO4	Make use of the Web browsers, email and news groups.	
CO5	Craft professional word documents; excel spread sheet and power point presentations.	

Course Name: DATA STRUCTURES LAB

Course Code: 20CS3PC05		Academic Year: 2022-23
CO1	Design an algorithm along with the complexity for a given problem	
CO2	Able to implement the stack, queues using static and dynamic data structures.	
CO3	Develop the programs to perform different operations on linked list	
CO4	Make use of different tree traversal techniques for nonlinear data structures	
CO5	Develop programs for searching and sorting techniques by different methods.	

Course Name: BASIC PYTHON PROGRAMMING LAB

Course Code: 20A13PC02		Academic Year: 2022-23
CO1	Implement the basic concepts scripting and the contributions of scripting language	
CO2	Explore object-oriented concepts thru built in objects of Python.	
CO3	Implement Dictionaries of python for a given problem	
CO4	Implement mathematical & statistical concepts thru python	
CO5	Create practical and contemporary applications	

Course Name: PROFESSIONAL ENGINEERING AND ETHICS

Course Code: 20MC3HS01		Academic Year: 2022-23
CO1	To gain the knowledge on different codes of ethics, such as personal & professional, accountability, controllability, governability, life skills and consequentialism.	
CO2	To perceive moral values in different fields in different ways	
CO3	To follow value-based education system by learning different techniques	
CO4	To asses workplace responsibilities by following different case studies	
CO5	To realize the work place responsibilities, honesty, integrity, and promise-keeping & trustworthiness, loyalty, fairness.	

Course Name: QUANTITATIVE APTITUDE

Course Code: 20MC3BS02		Academic Year: 2022-23
CO1	To Understand and Practice Simplifications.	
CO2	To Understand and Practice the Problems on Ages.	
CO3	To Understand and Practice the Quadratic Equations.	
CO4	To Understand and Practice arrangement and selection in their daily life.	
CO5	To Understand and Practice commercial mathematics.	

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Department AIML

II B.Tech II Semester Course Outcomes

Course Name: Foundation of Machine Learning

Course Code: 20A14BS07		Academic Year: 2022-23
CO1	Apply the concepts of probability and distributions to some case studies.	
CO2	To define the mean, Variance and covariance of a discrete random variable.	
CO3	Know about Uniform Distributions.	
CO4	Apply the concept of test of hypothesis to take decision for profit or loss.	
CO5	Apply stochastic processes to greatly simplify processes that satisfy Markov Property.	

Course Name: Business Economics and Financial Analysis

Course Code: 20MS4HS03		Academic Year: 2022-23
CO1	Identify the various forms of business and its impact on economic variables.	
CO2	To realize the demand fluctuations and factors influencing the demand.	
CO3	To analyze different market structures, pricing strategies and forms of business organization.	
CO4	To study the firms, financial position and the financial statements of a company.	
CO5	To evaluate different types of financial ratios for knowing liquidity and profitability positions of business concern.	

Course Name: Design And Analysis of algorithm

Course Code: 20AI4PC03		Academic Year: 2022-23
CO1	Make use of divide and conquer methods for developing algorithms.	
CO2	Apply the concept of backtracking to solve the optimization problems.	
CO3	Solve the optimization problems using dynamic programming methodology.	
CO4	Solve the optimization problem by using Greedy method.	
CO5	Solve the optimization problem by using branch and bound method and NP-Hard and NPComplete for the given example problems.	

Course Name: OPERATING SYSTEMS

Course Code: 20CS4PC09		Academic Year: 2022-23
CO1	Demonstrate the fundamental components of a computer operating system.	
CO2	Identify appropriate scheduling algorithm for process management.	
CO3	Solve the situations occurred by deadlock to maintain appropriate process synchronization.	
CO4	Make use of page replacement algorithm for effective memory management	
CO5	Apply the various system calls to enable the operating system services	

Course Name: DATABASE MANAGEMENT SYSTEMS

Course Code: 20CS4PC10		Academic Year: 2022-23
CO1	Build the appropriate ER Model for the given problem	
CO2	Illustrate the concepts of Relational Model, Algebra and Calculus..	
CO3	3. Apply the concepts of Normalization for the consistent database.	
CO4	4. Write the proper SQL queries to access the database.	
CO5	5. Apply the concurrency control protocol to maintain the ACID properties while designing the database	

Course Name: OPERATING SYSTEMS LAB

Course Code: 20CS4PC11		Academic Year: 2022-23
CO1	Implement programs based on operating system concept of scheduling.	
CO2	Develop a program based on operating system concept of deadlock management.	
CO3	Simulate the concept to implement programs based on operating system concept of file management.	
CO4	Apply the concept of memory management for implementing a program.	
CO5	Implement C programs using UNIX system calls.	

Course Name: DESIGN AND ANALYSIS OF ALGORITHM LAB

Course Code: 20AI4PC04		Academic Year: 2022-23
CO1	Write programs for given real world problems using java collection framework.	
CO2	Build the programs using abstract classes to solve the specified problems.	
CO3	Make use the concept of multithreading to allow parallel processing in the given program.	
CO4	Create GUI programs using Java swing controls for the given example program.	
CO5	Create web pages using Applets for given example problem.	

Course Name: DATABASE MANAGEMENT SYSTEMS LAB

Course Code: 20CS4PC13		Academic Year: 2022-23
CO1	Design a database schema for given problem data.	
CO2	Build a GUI application.	
CO3	Apply the normalization techniques for development of application software to realistic problems	
CO4	Formulate queries using SQL DML/DDDL/DCL commands.	
CO5	Implement triggers to raise as per real time data and also Implement concurrency control mechanisms	

Course Name: GENDER SENSITIZATION

Course Code: 20MC4HS03		Academic Year: 2022-23
CO1	Students will have developed a better understanding of important issues related to gender in contemporary India	
CO2	Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.	
CO3	Students will attain a finer grasp of how gender discrimination works in our society and how to counter it	
CO4	Students will acquire insight into the gendered division of labour and its relation to politics and economics	
CO5	Men and women students and professionals will be better equipped to work and live together as equals.	

Course Name: QUANTITATIVE LOGICAL AND REASONING

Course Code: 20MC4BS03		Academic Year: 2022-23
CO1	To understand and practice logical reasoning	
CO2	To understand and practice the different classifications	
CO3	To understand and practice different Sitting Arrangements, Data Sequences	
CO4	To understand and practice the Non-Verbal Reasoning	
CO5	To understand and practice the graphs.	

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Department AIML

III B.Tech I Semester Course Outcomes

Course Name:Computer Networks

Course Code: 20AI5PC05		Academic Year: 2023-24
CO No.		
1	Demonstrate the concepts of Data communication procedures and various models of Networking.	
2	Summarize the features of various protocols used in Data Link Layer	
3	Identify appropriate routing algorithm for broadcasting in Network Layer.	
4	Demonstrate the services and features of TCP/UDP protocols in Transport Layer.	
5	Summarize the services and features of Application Layer with respect to World Wide Web.	

Course Name: OOPs Through Java

Course Code: 20AI5PC06		Academic Year: 2023-24
CO1	Demonstrate the concepts of OOPs using java.	
CO2	Implement complex programs using java standard API library.	
CO3	Build java programs using multithreading and exception handling techniques	
CO4	Solve the problems using java collection framework.	
CO5	Develop interactive programs using applets and swings for the given problem.	

Course Name: Formal Language Automata Theory/CD

Course Code: 20AI5PC07		Academic Year: 2023-24
CO1	Able to employ finite state machines for modelling and solving computing problems.	
CO2	Able to design context free grammars for formal languages.	
CO3	Able to distinguish between decidability and undecidability.	
CO4	Demonstrate the knowledge of patterns, tokens & regular expressions for lexical analysis.	
CO5	Acquire skills in using lex tool and design LR parsers	

Course Name: Machine Learning

Course Code: 20AI5PC08		Academic Year: 2023-24
CO1	Outline the basic concepts or Probability and Machine Learning	
CO2	Develop the Statistics and data analysis along with visualization	
CO3	Implement the different types of regression models.	
CO4	Implement the classification model for categorical data.	
CO5	Analyze and develop the non-Parametric models.	

Course Name: Design Pattern

Course Code: 20AI5PE14		Academic Year: 2023-24
CO1	Construct a design consisting of a collection of modules.	
CO2	Exploit well-known design patterns (such as Iterator, Observer, Factory and Visitor).	
CO3	Distinguish between different categories of design patterns.	
CO4	Ability to understand and apply common design patterns to incremental/iterative development.	
CO5	Ability to identify appropriate patterns for design of given problem.	
	Design the software using Pattern Oriented Architectures.	

Course Name: Computer Network Lab

Course Code: 20AI5PC09		Academic Year: 2023-24
CO1	Implement data link layer farming methods	
CO2	Analyze error detection and error correction codes.	
CO3	Implement and analyze routing and congestion issues in network design.	
CO4	Implement Encoding and Decoding techniques used in presentation layer	
CO5	To be able to work with different network tools	

Course Name: OOP's Through Java Lab

Course Code: 20AI5PC10		Academic Year: 2023-24
CO1	Write programs for given real world problems using java collection framework.	
CO2	Build the programs using abstract classes to solve the specified problems.	
CO3	Make use the concept of multithreading to allow parallel processing in the given program.	
CO4	Create GUI programs using Java swing controls for the given example program	
CO5	Create web pages using Applets for given example problem.	

Course Name: Machine Learning Lab

Course Code: 20AI5PC11		Academic Year: 2023-24
CO1	Outline the basic concepts of Probability and Machine Learning	
CO2	Develop the Statistics and data analysis along with visualization	
CO3	Implement the different types of regression models.	
CO4	Implement the classification model for categorical data.	
CO5	Analyze and develop the non-Parametric models.	

Course Name: Intellectual Property Right

Course Code: 20MC5HS05		Academic Year: 2023-24
CO1	The course is designed to provide comprehensive knowledge to the students regarding Indian position of the Patent Law and importance of IPR	
CO2	Trademarks and designs with respect to products prevents entry into the market and ensures that consumers can rely on the quality and safety of genuine products	
CO3	To help the students to learn and understand the reason for pursuing the course and helps to identify what he will be able to do at the end of the course.	
CO4	Trade secrets are secret practices and processes that give a company a competitive advantage over its competitors.	
CO5	The primary function of intellectual property rights (IPRs) is to protect and stimulate the development and distribution of new products and the provision of new services based on the creation and exploitation of inventions, trademarks, designs, creative content or other intangible assets.	

Course Name: Personality Development & Soft Skill

Course Code: 20MC5HS06		Academic Year: 2023-24
CO1	Students will possess the personality development techniques and communication skills.	
CO2	Students will possess knowledge about leadership.	
CO3	Students will be able to acquire the skills to manage stress and conflict.	
CO4	Students will able to acquire Problem Solving & Critical Thinking.	
CO5	Students will able to acquire different resume preparation & Essay Writing Techniques	

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Department AIML

III B.Tech II Semester Course Outcomes

Course Name: ARTIFICIALINTELLIGENCE

Course Code: 20AI6PC12		Academic Year: 2023-24
1	Ability to formulate an efficient problem space for a problem expressed in natural language.	
2	Select a search algorithmfor a problem and estimate its time and space complexities	
3	Possess the skill for representing knowledge using the appropriatetechnique for ag i v e n p r o b l e m	
4	Possess the ability to apply AI techniques to solve problems of game playing, and machine learning	
5	Ability to design Expert system.	

Course Name: ROBOTICS

Course Code: 20AI6PC13		Academic Year: 2023-24
CO1	Enables students to embark on a serious robot project.	
CO2	Ability to integrate the sensor with robots.	
CO3	Ability to design an appropriate path paling and navigation of Robot.	

Course Name: DATA SCIENCE

Course Code: 20AI6PC14		Academic Year: 2023-24
CO1	Explain how data is collected, managed and stored for data science;	
CO2	Understand the key concepts in data science, including their real-world applications and the toolkit used by data scientists	
CO3	Implement data collection and management scripts using MongoDB	

Course Name: NEURAL NETWORKS

Course Code: 20AI6PC15		Academic Year: 2023-24
CO1	Make use of the concepts of Neural Networks.	
CO2	To select the Learning Networks in modeling real world systems	
CO3	Create different neural networks of various architectures both feed forward and feed backward.	
CO4	Perform the training of neural networks using various learning rules	
CO5	Perform the testing of neural networks and do the perform analysis of thesenetworks for various pattern recognition applications.	

Course Name: ADVANCED COMMUNICATION SKILLSLAB

Course Code: 20EN6HS04		Academic Year: 2023-24
CO1	Develop LSRW skills and soft skills..	
CO2	Sketch the nuances of language through group activities and oral presentations	
CO3	Apply written communication skills to meet the needs of their academics and career endeavors.	
CO4	Express confidence to face interviews thereby enhancing employability skills.	
CO5	Demonstrate their social and professional communication skills.	

Course Name: TENSOR FLOW LAB

Course Code: 20AI6PC16		Academic Year: 2023-24
CO1	Be introduced to the basic concepts of TensorFlow	
CO2	Explore its main functions, operations, and the execution pipeline	
CO3	TensorFlow can be used in curve fitting, regression, classification, and the minimization of errorfunctions.	
CO4	Apply TensorFlow for backpropagation to tune weights and biases while neural networks are being trained	

Course Name: CONSTITUTION OF INDIA

Course Code: 20MC6HS07		Academic Year: 2023-24
CO1	Meaning of the constitution law and constitutionalism	
CO2	Historical perspective of the Constitution of India	
CO3	Salient features and characteristics of the Constitution of India	
CO4	Scheme of the fundamental rights	
CO5	The scheme of the Fundamental Duties and its legal status	

Course Name: SOFTWARE TESTING & PROJECT MANAGEMENT (PROFESSIONAL ELECTIVE – II)

Course Code: 20AI5PE23		Academic Year: 2023-24
CO1	Ability to apply the process of testing and various methodologies in testing for developed software.	
CO2	Ability to write test cases for given software to test it before delivery to the customer	
CO3	Identify and describe the key phases of project management	
CO4	Identify and describe the key phases of project management	
CO5	Determine an appropriate project management approach through an evaluation of the business context and scope of the project	

Course Name: JAVA (OPEN ELECTIVE- I)

Course Code: 20CS6OE11		Academic Year: 2023-24
CO1	Demonstrate the concepts of OOPS using java.	
CO2	Implement complex programs using java standard AP I library.	
CO3	Build java programs using multithreading and exception handling techniques.	
CO4	Solve the problems using java collection framework.	
CO5	Develop inter active programs using applets and swings for the given problem.	

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