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Course Outcomes

Year	2nd	Semester	3rd
Subject Name	Sensor and instrumentation	Subject Code/ NBA Code	KOE-044/CSAI-201

S. No.	Course Outcomes (CO)
CO 1	To apply the use of sensor for measurement of displacement, force & pressure.
CO 2	To use commonly used sensor in industry for measurement of temperature, position, accelerometer, vibration sensor, flow and level.
CO 3	To generalize the use of virtual instrumentation in automation industries.
CO 4	To identify and use data acquisition methods
CO 5	To explain intelligent instrumentation in industrial automation.

Year	2nd	Semester	3rd
Subject Name	Maths IV	Subject Code/ NBA Code	KAS-302/CSAI-202

S. No.	Course Outcomes (CO)
CO 1	Remember the concept of partial differential equation and to solve partial differential equation
CO 2	Analyze the concept of partial differential equations to evaluate the problems concerned with partial differential equations.
CO 3	Understand the concept of correlation, moments, skewness and kurtosis and
CO 4	Remember the concept of probability to evaluate distributions.
CO 5	Apply the concept of hypothesis testing and statistical quality control to create

Year	2nd	Semester	3rd
Subject Name	Technical Communication	Subject Code/ NBA Code	KAS-301/CSAI-203

S. No.	Course Outcomes (CO)
CO 1	Develop an understanding of the nature and objective of Technical Communication relevant for the work place as Engineers
CO 2	Utilizing technical writing for the purposes of Technical Communication and its exposure in various dimensions
CO 3	Make use of verbal and non-verbal communication to deliver in front of diverse audience confidently by enhancing presentation skills

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CO 4	Understand and apply basic principles of critical thinking, problem solving, and technical competence in the development of exposition and argument.
CO 5	Evaluate their efficacy as fluent & efficient communicators by learning the voice-dynamics

Year	2nd	**Semester**	3rd
Subject Name	Universal Human values	**Subject Code/ NBA Code**	KVE-301/CSAI-204

S. No.	**Course Outcomes (CO)**
CO 1	Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society
CO 2	Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body
CO 3	Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society
CO 4	Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.
CO 5	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

Year	2nd	**Semester**	3rd
Subject Name	Data Structure	**Subject Code/ NBA Code**	KCS-301/CSAI-205

S. No.	**Course Outcomes (CO)**
CO 1	Describe linear data structures like array, linked list, stack and queue.
CO 2	Infer design and implementation of different basic data structures.
CO 3	Describe non-linear data structures like tree and graph and their use in various domains like networking, complier design etc.
CO 4	Examine advantages and disadvantages of various data structures for selection of efficient data structure to solve any problem.
CO 5	Evaluate various data structures in terms of time and space complexity for handling operations like searching, insertion, deletion, traversing, sorting,

Year	2nd	**Semester**	3rd
Subject Name	Computer Organization and Architecture	**Subject Code/ NBA Code**	KCS-302/CSAI-206

S. No.	**Course Outcomes (CO)**
CO 1	Describe different functional unit, architecture and arithmetic algorithms.
CO 2	Explain execution of various instructions, micro-operations and hardwired control
CO 3	Design connection diagram of memory address mapping with the help of RAM and ROM.
CO 4	Define different modes of communication between peripheral devices and CPU.

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CO 5	Learn the pipelining concept and how to optimize the performance of the cache memory.

Year	2nd	**Semester**	3rd
Subject Name	Discrete Structures & Theory of Logic	**Subject Code/ NBA Code**	KCS-303/CSAI-207

S. No.	**Course Outcomes (CO)**
CO 1	Knowledge of the basic principles of sets and relations and functions and be able to construct simple mathematical proofs.
CO 2	Expose concepts and properties of algebraic structures such as semi groups, monoids and groups.
CO 3	Illustrate Partial order sets, Lattices and Boolean Algebra.
CO 4	Express a logic sentence in terms of predicates, quantifiers, and logical connectives.
CO 5	Understand use of tree and graph algorithms to solve problems and be familiar with combinatorial analysis and recurrence relations.

Year	2nd	**Semester**	3rd
Subject Name	Data Structures Using C Lab	**Subject Code/ NBA Code**	KCS-351/CSAI-208

S. No.	**Course Outcomes (CO)**
CO 1	Demonstrate different operations on array and linked list.
CO 2	Execute Stack and Queue using Array and Linked List.
CO 3	Implement Searching and Traversing algorithms of various linear and nonlinear data structures.
CO 4	Design C programs of Bubble, Selection, Insertion, Quick, Merge and Heap Sort algorithms

Year	2nd	**Semester**	3rd
Subject Name	Computer Organization Lab	**Subject Code/ NBA Code**	KCS-352/CSAI-209

S. No.	**Course Outcomes (CO)**
CO 1	Examine the truth tables of logic gates using TTL IC's and implementation of Combinational Circuit.
CO 2	Implement the Sequential Circuits like flip-flops using basic gate ICs.
CO 3	Demonstrate seven segment display and 8-bit arithmetic logic unit.
CO 4	Explain various models for performing matrix multiplication and scalability study of types of processors.

Year	2nd	**Semester**	3rd
Subject Name	Discrete Structure & Logic	**Subject Code/ NBA**	KCS-353/CSAI-210

S. No.	**Course Outcomes (CO)**

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CO 1	Evaluating basic operations of SET using “C”.
CO 2	Understanding of PROLOG.
CO 3	Applying basic computation of discrete mathematics using PROLOG.

Year	2nd	**Semester**	3rd
Subject Name	Mini Project and Internship Assessment	**Subject Code/ NBA Code**	KCS-354/CSAI-211

S. No.	**Course Outcomes (CO)**
CO 1	Define the problem statement and ensure its feasibility.
CO 2	Design and develop the solution for real world problems using knowledge
CO 3	Implement the knowledge, skills and ethics of a professional engineer.

Year	2nd	**Semester**	3rd
Subject Name	Computer System Security	**Subject Code/ NBA Code**	KNC-301/CSAI-212

S. No.	**Course Outcomes (CO)**
CO 1	To discover software bugs that pose cyber security threats and to explain how to fix the bugs to mitigate such threats.
CO 2	To discover cyber attack scenarios to web browsers and web servers and to explain how to mitigate such threats.
CO 3	To discover and explain mobile software bugs posing cyber security threats, explain and recreate exploits, and to explain mitigation techniques.

Year	2nd	**Semester**	3rd
Subject Name	Python Programming	**Subject Code/ NBA Code**	KNC-302/CSAI-213

S. No.	**Course Outcomes (CO)**
CO 1	Read and write simple python programs.
CO 2	Develop python programs with conditionals and loops
CO 3	Define Python functions and to use Python data structures- list, tuples,
CO 4	Do input and output with files in Python
CO 5	Do searching, sorting and merging in python.

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Year	2nd	Semester	4th
Subject Name	Maths IV	Subject Code/ NBA Code	KAS-402/CSAI-214

S. No.	Course Outcomes (CO)
CO 1	Remember the concept of partial differential equation and to solve partial differential equation.
CO 2	Analyse the concept of partial differential equations to evaluate the problems concerned with partial differential equation.
CO 3	Understand the concept of correlation, moments, skewness and kurtosis and curve fitting.
CO 4	Remember the concept of probability to evaluate distributions.
CO 5	Apply the concept of hypothesis testing and statistical quality control to create control charts.

Year	2nd Year	Semester	3rd
Subject Name	Sensor & Instrumentation	Subject Code/ NBA Code	KOE-044/CSAI-215

S. No.	Course Outcomes (CO)
CO 1	Apply the use of sensors for measurement of displacement, force and pressure.
CO 2	Employ commonly used sensors in industry for measurement of temperature, position, accelerometer, vibration sensor, flow and level.
CO 3	Demonstrate the use of virtual instrumentation in automation industries.
CO 4	Identify and use data acquisition methods.
CO 5	Comprehend intelligent instrumentation in industrial automation.

Year	2nd	Semester	4th
Subject Name	Universal Human Value	Subject Code/ NBA Code	KVE-401/CSAI-216

S. No.	Course Outcomes (CO)
CO 1	The students are able to see that verification on the basis of natural acceptance and experiential validation through living is the only way to verify right or wrong, and referring to any external source like text or instrument or any other person cannot enable them to verify with authenticity; it will only develop assumptions.
CO 2	The students are able to understand harmony in Myself (Self(I) & Body) and see that their practice in living is not in harmony with their natural acceptance most of the time, and all they need to do is to refer to their natural acceptance to remove this disharmony.

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CO 3	The students are able to see that lack of right understanding leading to lack of relationship is the major cause of problems in their family and not the lack of physical facilities in most of the cases, while they have given higher priority to earning of physical facilities in their life ignoring relationships and not being aware that right understanding is the most important requirement for any human being.
CO 4	The students feel confident that they can understand the whole existence; nothing is a mystery in this existence. They are also able to see the interconnectedness in the nature, and point out how different courses of study relate to the different units and levels. Also, they are able to make out how these courses can be made appropriate and holistic.
CO 5	The students are able to grasp the right utilization of their knowledge in their streams of Technology/Engineering/Management to ensure mutually enriching and recyclable productions systems.

Year	2nd	**Semester**	4th
Subject Name	Operating System	**Subject Code/ NBA Code**	KCS-401/CSAI-218

S. No.	**Course Outcomes (CO)**
CO 1	Learn the fundamentals and structure of operating systems.
CO 2	Discuss various process concepts and use them to solve various problems of synchronization.
CO 3	Describe the mechanism for handling CPU Scheduling and the concept of deadlock
CO 4	Understand the concept of memory management in multi-programming systems.
CO 5	Explain various file system concepts , I/O management and disk scheduling.

Year	2nd	**Semester**	4th
Subject Name	Theory of Automata and Formal Languages	**Subject Code/ NBA Code**	KCS-402/CSAI-219

S. No.	**Course Outcomes (CO)**
CO 1	Explain automata as the basis of all Computer Science language design.
CO 2	Discuss various process concepts and use them to solve various problems of synchronization.
CO 3	Describe the mechanism for handling CPU Scheduling and the concept of
CO 4	Understand the concept of memory management in multi-programming systems.
CO 5	Explain various file system concepts , I/O management and disk scheduling.

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Year	2nd	Semester	4th
Subject Name	Microprocessor	Subject Code/ NBA Code	KCS-403/CSAI-220

S. No.	Course Outcomes (CO)
CO 1	Apply a basic concept of digital fundamentals to Microprocessor based personal
CO 2	Analyze a detailed s/w & h/w structure of the Microprocessor.
CO 3	Illustrate how the different peripherals (8085/8086) are interfaced with Microprocessor.
CO 4	Analyze the properties of Microprocessors (8085/8086).
CO 5	Evaluate the data transfer information through serial & parallel ports.

Year	2nd	Semester	4th
Subject Name	Operating Systems Lab	Subject Code/ NBA Code	KCS-451/CSAI-221

S. No.	Course Outcomes (CO)
CO 1	Implement CPU Scheduling Algorithms such as FCFS, SJF, SRTF, PRIORITY and
CO 2	Simulate all Page Replacement Algorithms FIFO, LRU.
CO 3	Apply Paging Technique of Memory Management.

Year	2nd	Semester	4th
Subject Name	Microprocessor Lab	Subject Code/ NBA Code	KCS-452/CSAI-222

S. No.	Course Outcomes (CO)
CO 1	Create forms, frames with different style using HTML/CSSUI for various
CO 2	Implement Javascript language for various user defined and predefined functions with html applications
CO 3	Implementation of Javascript for validation and authentication at client side

Year	2nd	Semester	4th
Subject Name	Python Language Programming Lab	Subject Code/ NBA Code	KCS-453/CSAI-223

S. No.	Course Outcomes (CO)
CO 1	Use basic functions , conditional statements along with loop
CO 2	Demonstrate the concept of strings and list in python programming.
CO 3	Represent compound data using Python lists, tuples, dictionaries, and accessing
CO 4	Use of class and Objects in Python

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Year	2nd	Semester	3rd
Subject Name	Python Programming	Subject Code/ NBA Code	KNC-402/CSAI-224

S. No.	Course Outcomes (CO)
CO 1	Read and write simple python programs.
CO 2	Develop python programs with conditionals and loops
CO 3	Define Python functions and to use Python data structures- list, tuples,
CO 4	Do input and output with files in Python
CO 5	Do searching, sorting and merging in python.

Year	2nd	Semester	4th
Subject Name	Computer System Security	Subject Code/ NBA Code	KNC-401/CSAI-225

S. No.	Course Outcomes (CO)
CO 1	To discover software bugs that pose cyber security threats and to explain how to fix the bugs to mitigate such threats
CO 2	To discover cyber attack scenarios to web browsers and web servers and to explain how to mitigate such threats
CO 3	To discover and explain mobile software bugs posing cyber security threats, explain and recreate exploits, and to explain mitigation techniques.
CO 4	To articulate the urgent need for cyber security in critical computer systems, networks, and world wide web, and to explain various threat scenarios
CO 5	To articulate the well known cyber attack incidents, explain the attack scenarios, and explain mitigation techniques.

Year	3rd	Semester	5th
Subject Name	Database Management System	Subject Code/ NBA Code	KCS-501/CSAI-301

S. No.	Course Outcomes (CO)
CO 1	Understand basic database concepts and architecture, the usage of ER diagram and use of the concepts of keys in creating database.
CO 2	Construct the structure and operation of the relational data model and simple to advance database queries using Structured Query Language (SQL).
CO 3	Implement logical database design principles, functional dependencies and database normalization.
CO 4	Demonstrate the database transactions including serializability& recoverability.
CO 5	Explain the concurrency control mechanisms, locking protocols and the concepts of Oracle.

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Year	3rd	Semester	5th
Subject Name	Artificial Intelligence	Subject Code/ NBA Code	KAI-501/CSAI-302

S. No.	Course Outcomes (CO)
CO 1	Understand the basics of the theory and practice of Artificial Intelligence as a discipline and about intelligent agents
CO 2	Understand search techniques and gaming theory
CO 3	The student will learn to apply knowledge representation techniques and problem solving strategies to common AI applications.
CO 4	Student should be aware of techniques used for classification and clustering.
CO 5	Student should aware of basics of pattern recognition and steps required for it.

Year	3rd	Semester	5th
Subject Name	Design and Analysis of Algorithm	Subject Code/ NBA Code	KCS-503/CSAI-303

S. No.	Course Outcomes (CO)
CO 1	Define basic algorithms, designing techniques, Complexity Analysis of various problems in different domain like that sorting problem and linear order static.
CO 2	Discuss advanced Data Structure like R B Tree, Balanced Tree, Binomial and Fibonacci heap
CO 3	Practice the problems based on Divide and conquer approaches and Greedy
CO 4	Differentiate between divide and conquer approach and Dynamic Programming and compute the optimal solution using dynamic programming.
CO 5	Explain the some basic algorithm of string Matching and concept of NP completeness And Approximation Algorithms

Year	3rd	Semester	5th
Subject Name	Object Oriented System & Design	Subject Code/ NBA Code	KCS-054/CSAI-304

S. No.	Course Outcomes (CO)
CO 1	To define the application development and the insights of object oriented programming to implement application.
CO 2	To analyze the role of overall modeling concepts (i.e. System, structural).
CO 3	To explore the difference between various object modeling technique
CO 4	To define the object oriented programming concepts in C++.
CO 5	To apply object oriented paradigm concepts in programming in C++.

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Year	3rd	Semester	5th
Subject Name	Application of Soft Computing	Subject Code/ NBA Code	KCS-056/CSAI-305

S. No.	Course Outcomes (CO)
CO 1	Recognize the feasibility of applying a soft computing methodology for a
CO 2	Understand the concepts and techniques of soft computing and foster their
CO 3	Apply neural networks to pattern classification and regression problems and
CO 4	Apply fuzzy logic and reasoning to handle uncertainty and solve engineering
CO 5	Apply genetic algorithms to combinatorial optimization problems

Year	3rd	Semester	5th
Subject Name	Database Management Systems Lab	Subject Code/ NBA Code	KCS-551/CSAI-306

S. No.	Course Outcomes (CO)
CO 1	Understand and apply oracle 11 g products for creating tables, views, indexes, sequences and other database objects.
CO 2	Design and implement a database schema for company data base, banking data base, library information system, payroll processing system, student information
CO 3	Write and execute simple and complex queries using DDL, DML, DCL and TCL.
CO4	Write and execute PL/SQL blocks, procedure functions, packages and triggers,
CO5	Enforce entity integrity, referential integrity, key constraints, and domain constraints on database

Year	3rd	Semester	6th
Subject Name	Artificial Intelligence Lab	Subject Code/ NBA Code	KAI-551/CSAI-307

S. No.	Course Outcomes (CO)
CO 1	Use of python to understand the concept of AI
CO 2	Implementation of Different AI Techniques
CO 3	Application of AI techniques in practical Life
CO4	Understanding of Natural Language Tool Kit.
CO5	Practical Application of Natural Language Tool Kit

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Year	3rd	Semester	6th
Subject Name	Design And Analysis Of Algorithm Lab	Subject Code/ NBA Code	KCS-553/CSAI-308

S. No.	Course Outcomes (CO)
CO 1	Implement algorithm to solve problems by iterative approach.
CO 2	Implement algorithm to solve problems by divide and conquer approach.
CO 3	Implement algorithm to solve problems by Greedy algorithm approach.
CO4	Implement algorithm to solve problems by Dynamic programming, backtracking, branch and bound approach.
CO5	Implement algorithm to solve problems by branch and bound approach.

Year	3rd	Semester	5th
Subject Name	Mini Project and Internship Assessment	Subject Code/ NBA Code	KCS-554/CSAI-309

S. No.	Course Outcomes (CO)
CO 1	Define the problem statement and ensure its feasibility.
CO 2	Design and develop the solution for real world problems using knowledge acquired in internship.
CO 3	Implement the knowledge, skills and ethics of a professional engineer.

Year	3rd	Semester	5th
Subject Name	Constitution of India	Subject Code/ NBA Code	KCS-501/CSAI-310

S. No.	Course Outcomes (CO)
CO 1	To acquaint the students with legacies of constitutional development in India and help them to understand the most diversified legal document of India and philosophy behind it.
CO 2	To make students aware of the theoretical and functional aspects of the Indian Parliamentary System natural resources and possible way for conservation.
CO 3	To channelize student's thinking towards basic understanding of the legal concepts and its implications for engineers.
CO 4	To acquaint students with latest intellectual property rights and innovation environment with related regulatory framework.
CO 5	To make students learn about role of engineering in business organizations and e-governance.

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Year	3rd	Semester	6th
Subject Name	Deep Learning	Subject Code/ NBA Code	KAI-601/CSAI-311

S. No.	Course Outcomes (CO)
CO 1	Explain various software characteristics and analyze different software development models
CO 2	Demonstrate the contents of SRS and apply basic software quality assurance
CO 3	Compare and contrast various software design methods.
CO 4	Apply basic testing process for software systems.
CO 5	Manage software development process and make use of various estimation tools.

Year	3rd	Semester	6th
Subject Name	Web Technology	Subject Code/ NBA Code	KCS-602/CSAI-312

S. No.	Course Outcomes (CO)
CO 1	Explain web development Strategies and Protocols governing Web.
CO 2	Develop Java programs for window/web-based applications.
CO 3	Design web pages using HTML, XML, CSS and JavaScript.
CO 4	Creation of client-server environment using socket programming.
CO 5	Building enterprise level applications and manipulate web databases using JDBC
CO6	Design interactive web applications using Servlets and JSP

Year	3rd	Semester	6th
Subject Name	Computer Networks	Subject Code/ NBA Code	KCS-603/CSAI-313

S. No.	Course Outcomes (CO)
CO 1	Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission.
CO 2	Apply channel allocation, framing, error and flow control techniques.
CO 3	Describe the functions of Network Layer i.e. Logical addressing, subnetting &
CO 4	Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism.
CO 5	Explain the functions offered by session and presentation layer and their
CO6	Explain the different protocols used at application layer i.e. HTTP, SNMP, SMTP, FTP, TELNET and VPN.

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Year	3rd	Semester	6th
Subject Name	Software Engineering	Subject Code/ NBA Code	KDS-602/CSAI-314

S. No.	Course Outcomes (CO)
CO 1	Explain various software characteristics and analyze different software Development Models.
CO 2	Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that design, development meet or exceed applicable
CO 3	Compare and contrast various methods for software design.
CO 4	Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing.
CO 5	Manage software development process independently as well as in teams and make use of Various software management tools for development, maintenance and analysis.

Year	3rd	Semester	6th
Subject Name	Embedded System	Subject Code/ NBA Code	KOE-062/CSAI-315

S. No.	Course Outcomes (CO)
CO 1	Understand the basics of embedded system and its structural units.
CO 2	Analyze the embedded system specification and develop software programs.
CO 3	Evaluate the requirements of the programming embedded systems, related software architecture.
CO 4	Understand the RTOS based embedded system design.
CO 5	Understand all the applications of the embedded system and designing issues.

Year	3rd	Semester	6th
Subject Name	Machine Learning Lab	Subject Code/ NBA Code	KCS-651/CSAI-316

S. No.	Course Outcomes (CO)
CO 1	Understand complexity of Machine Learning algorithms and their limitations;
CO 2	Understand modern notions in data analysis-oriented computing;
CO 3	Be capable of performing experiments in Machine Learning using real-world data
CO4	Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own;

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Year	3rd	Semester	6th
Subject Name	Web Technology Lab	Subject Code/ NBA Code	KCS-652/CSAI-317

S. No.	Course Outcomes (CO)
CO 1	Develop static web pages using HTML
CO 2	Develop Java programs for window/web-based applications.
CO 3	Design dynamic web pages using Javascript and XML
CO4	Design dynamic web page using server site programming Ex. ASP/JSP/PHP
CO5	Design server site applications using JDDC,ODBC and section tracking API

Year	3rd	Semester	6th
Subject Name	Computer Networks Lab	Subject Code/ NBA Code	KCS-653/CSAI-318

S. No.	Course Outcomes (CO)
CO 1	Simulate different network topologies.
CO 2	Implement various framing methods of Data Link Layer
CO 3	Implement various Error and flow control techniques.
CO 4	Implement network routing and addressing techniques
CO 5	Implement transport and security mechanisms

Year	3rd	Semester	6th
Subject Name	Indian Tradition, Culture and Society	Subject Code/ NBA Code	KNC-602/CSAI-319

S. No.	Course Outcomes (CO)
CO 1	Ability to understand, connect up and explain basics of Indian Traditional knowledge modern scientific perspective.
CO 2	To facilitate the competence of the students to understand the harmony of the human being in nature or existence.
CO 3	To help the students to understand the activities and potentialities of the self and
CO 4	To define the process of inner evolution, specifically awakening to activities of the
CO 5	To help the students to understand different aspects of All-encompassing Resolution, leading to harmony at all levels from self to Nature and entire Existence.

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