ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Program Outcomes :

1. Engineering Knowledge

2. Problem Analysis

3. Design / Development of Solutions

4. Conduct Investigations of Complex Problems

5. Modern Tool Usage; 6.The Engineer and Society

7. Environment and Sustainability

8. Ethics

9. Individual and Teamwork

10. Communication

11. Project Management and Finance

12. Life-long Learning

Program Specific Outcomes:

PSO 1: Adapt, Contribute Innovate ideas in the field of Artificial Intelligence and Machine Learning

PSO2: Enrich the abilities to qualify for Employment, Higher studies and Research in various domains of Artificial Intelligence and Machine Learning such as Data Science, Computer Vision, Natural Language Processing with ethical values.

PSO3: Acquire practical proficiency with niche technologies and open source platforms and become Entrepreneur in the domain of Artificial Intelligence and Machine Learning

SRI KRISHNA INSTITUTE OF TECHNOLOGY

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#29, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bangalore- 560090

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sem: 3rd CO's (18scheme)

DATA STRUCTURES AND APPLICATIONS (18CS32)

CO1: Use different types of data structures, operations and algorithms
CO2: Use stack, Queue, Recursion in problem solving
CO3: Use of linked list and there applications
CO4: Use of Trees and its applications
CO5: Use of Graphs and various sorting, searching and harshing algorithms. Managing and organizing of files

ANALOG AND DIGITAL ELECTRONICS (18CS33)

CO1: Explain the basic organization of a computer system.
CO2: Demonstrate functioning of different sub systems, such as processor, Input/output,and memory.
CO3: Illustrate hardwired control and micro programmed control, pipelining, embedded and other computing systems.
CO4: Design and analyse simple arithmetic and logical units.

COMPUTER ORGANIZATION (18CS34)

CO1: Explain the basic organization of a computer system
CO2: Demonstrate functioning of different sub systems, such as processor, Input/output,and memory
CO3: Illustrate concepts of speed and performance consideration of memory system
CO4: Design and analyse simple arithmetic and logical units
CO5: Examine hardwired control and micro programmed control, pipelining, embedded and other computing systems

SOFTWARE ENGINEERING (18CS35)

CO1: Design a software engineering process and practices, demonstrate various process models and to develop the SRS document for project.
CO2: Use object oriented approach in software design and development
CO3: Usage of different system models, fundamentals of system design and implementation.
CO4: Distinguish different testing strategies and software evaluation process.
CO5: Identify usage of different techniques for project planning and software quality management.

DISCRETE MATHEMATICAL STRUCTURES (18CS36)

CO1: Use propositional and predicate logic in knowledge representation and truth verification.
CO2: Demonstrate the application of discrete structures in different fields of computer science.
CO3: Solve problems using recurrence relations and generating functions.

CO4: Application of different mathematical proofs techniques in proving theorems in the courses.
CO5: Compare graphs, trees and their applications.

ANALOG AND DIGITAL ELECTRONICS LABORATORY (18CSL37)

CO1: Use appropriate design equations / methods to design the given circuit.
CO2: Examine and verify the design of both analog and digital circuits using simulators.
CO3: Make us of electronic components, ICs, instruments and tools for design and testing of circuits for the given the appropriate inputs.
CO4:Compile a laboratory journal which includes; aim, tool/instruments/software/components used, design equations used and designs, schematics, program listing, procedure followed, relevant theory, results as graphs and tables, interpreting and concluding the findings.

DATA STRUCTURES LABORATORY (18CSL38)

CO1: Asymptotic performance of algorithms
CO2: Linear data structure and their applications such as stacks, queues and lists
CO3: Non linear data structure and their applications such as trees and graphs
CO4: Sorting and searching algorithms

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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sem: 4th CO's (18scheme)

DESIGN AND ANALYSIS OF ALGORITHMS (18CS42)

CO1: Describe and analyze the computational complexity
CO2: Estimate the computational complexity and design the algorithm for Divide and Conquer.
CO3: Estimate the computational complexity and design the algorithm for Greedy Methods
CO4: Estimate the computational complexity and design the algorithm for Dynamic programming
CO5: Estimate the computational complexity and design the algorithm for Backtracking.

OPERATING SYSTEMS (18CS43)

CO1: Demonstrate need for OS and different types of OS
CO2: Apply suitable techniques for management of different resources
CO3: Use processor, memory, storage and file system commands
CO4: Realize the different concepts of OS in platform of usage through case studies

MICROCONTROLLER AND EMBEDDED SYSTEMS (18CS44)

CO1: Describe the architectural features and instructions of ARM microcontroller
CO2: Develop application for programming skills using ARM microcontroller
CO3: Interface external hardware devices such as stepper Motor, DC Motor, DAC with ARM microcontroller.
CO4: Able to explain about Embedded systems, Characteristics details and implementation
CO5: Illustrate the need of real time operating system for embedded system applications

OBJECT ORIENTED CONCEPTS (18CS45)

CO1: Explain the object-oriented concepts and JAVA.
CO2: Develop computer programs to solve real world problems in Java.
CO3: Develop simple GUI interfaces for a computer program to interact with users, and to understand the event-based GUI handling principles using swings.

DATA COMMUNICATION (18CS46)

CO1: Explain the various components of data communication.
CO2: Understand and analyze the different types of Transmission media demonstrate data transmission and data conversion.
CO3: Explain the fundamentals of digital communication and switching.
CO3: Compare and contrast data link layer protocols.
CO4: Summarize IEEE 802.xx standards

DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY (18CSL47)

CO1: Design algorithms using appropriate design techniques (brute-force, greedy, dynamic Programming, etc.)
CO2: Implement a variety of algorithms such assorting, graph related, combinatorial, etc., in a high level language.
CO3: Analyze and compare the performance of algorithms using language features.
CO4: Apply and implement learned algorithm design techniques and data structuresto solve real-world problems.

MICROCONTROLLER AND EMBEDDED SYSTEMS LABORATORY (18CSL48)

CO1: Develop and test program using ARM7TDMI/LPC2148
CO2: Conduct the following experiments on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' &Keil Uvision-4 tool/compiler.