Krishnasamy College of Science, Arts & Management for Women, Cuddalore.

222 - B.Sc., Artificial Intelligence

Under CBCS

(Applicable to the candidates admitted in Affiliated Colleges in the academic year 2023 -2024)

Program Outcome

On successful completion of the programme the students will be able to

- ✓ **Disciplinary Knowledge:** Possess comprehensive knowledge and understanding of one or more disciplines that are part of a program of study, and apply it effectively.

- ✓ **Critical Thinking:** Demonstrate critical thinking abilities to evaluate evidence, arguments, claims, beliefs, and policies based on empirical evidence, identify assumptions and implications, formulate coherent arguments, and assess theories using a scientific approach to knowledge development.

- ✓ **Problem Solving:** Utilize competencies to solve non-familiar problems and apply learning to real-life situations instead of simply replicating curriculum content knowledge.

- ✓ **Analytical & Scientific Reasoning:** Possess analytical and scientific reasoning skills to evaluate evidence reliability and relevance, identify logical flaws in others' arguments, synthesize data from various sources, draw valid conclusions supported by evidence, and address opposing viewpoints.

- ✓ **Research related skills:** Possess research-related skills to analyze, interpret, and draw conclusions from quantitative/qualitative data, evaluate ideas, evidence, and experiences from an open-minded and reasoned research perspective, formulate hypotheses, test and analyze results, and derive conclusions.

- ✓ **Self-directed & Lifelong Learning**: Possess the ability to work independently, identify and manage a project, acquire knowledge and skills through self-directed learning for personal development, and meet economic, social, and cultural objectives. Possess the ability to learn how to learn and engage in lifelong learning.

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Course Objectives and Course Outcome

Subject Code & Title:23UAICC13 & PROGRAMMING FOR PROBLEM SOLVING

Course Objectives:

1) Recognize the need for programming languages and problem solving techniques.
2) Apply memory management concepts and function based modularization.
3) Recognize the bugs in the C program.
4) Develop simple C programs to illustrate the applications of different data types such as arrays, pointers, functions.
5) Develop programming skills to solve real time computational problems.

Course Outcomes:

1) The Student can understand the fundamentals of computer and program development process.
2) The Student can prepare innovative solution for the problem using branching and looping statements.
3) The Student can decompose a problem into functions and synthesize a complete program using divide and conquer approach.
4) The Student will be able to formulate algorithms and programs using arrays, pointers and Structures.
5) The Student will be able to create a new application software to solve real world problems.

Subject Code & Title:23UAICP14 & PROBLEM SOLVING USING C LAB

Course Objectives:

1) Understand the need for programming to solve computational problems.
2) Discover the basic programming constructs to prepare the program.
3) Analyze and interpret data using array, functions and pointers
4) Recognize the bugs in the C program.
5) Apply problem-solving skills to real-world scenarios

Course Outcomes:

1) Translate given algorithms to a working and correct program
2) Identify and correct logical errors encountered at run time
3) Create iterative as well as recursive programs.
4) Represent data in arrays, strings and structures and manipulate them through a program.
5) Declare pointers of different types and use them in defining self-referential structures.

Subject Code & Title:23UAICE15 & DISCRETE MATHEMATICS -

Course Objectives:

The course aims to introduce the concepts of recurrence relations and generating functions, Mathematical logic**,** Duality law and Lattices, Boolean Algebra, Boolean Polynomials,
Karnaugh Maps.

Course Outcome:
At the end of the course, students will be able to
1) Know the basic concepts of recurrence relations and generating functions
2) Learn to solve the Mathematical logic
3) Know the concepts of Mathematical logic: Functionally complete sets of connectives and Duality law.
4) Understand the concepts of Lattices
5) Know the basic concepts of Boolean Algebra

Subject Code & Title:23UAIEN16 & FUNDAMENDALS OF INFORMATION TECHNOLOGY

Course Objectives:
1) Understand basic concepts and terminology of information technology.
2) Have a basic understanding of personal computers and their operation
3) Be able to identify data storage and its usage
4) Get great knowledge of software and its functionalities
5) Understand about operating system and their uses

Course Outcomes:
1) Learn the basics of computer, Construct the structure of the required things in computer, learn how to use it.
2) Develop organizational structure using for the devices present currently under input or output unit.
3) Concept of storing data in computer using two header namely RAM and ROM with different types of ROM with advancement in storage basis.
4) Work with different software, Write program in the software and applications of software.
5) Usage of Operating system in information technology which really acts as a interpreter between software and hardware.

Subject Code & Title: 23UAIFC17 & OFFICE AUTOMATION

Course Objectives:
1) Understand the basics of computer systems and its components.
2) Understand and apply the basic concepts of a word processing package.
3) Understand and apply the basic concepts of electronic spreadsheet software.
4) Understand and apply the basic concepts of database management system.
5) Understand and create a presentation using PowerPoint tool.

Course Outcomes:

1) Possess the knowledge on the basics of computers and its components
2) Gain knowledge on Creating Documents, spreadsheet and presentation.
3) Learn the concepts of Database and implement the Query in Database.
4) Demonstrate the understanding of different automation tools.
5) Utilize the automation tools for documentation, calculation and presentation purpose.

Subject Code & Title: 23UAICC23 & PYTHON PROGRAMMING

Course Objectives:

1) Understand the most important libraries of Python, and its recommended programming styles and idioms.
2) Learn core Python scripting elements such as variables and flow control structures.
3) Develop applications using Python.

Course Outcomes:

1) Describe the datatypes, expressions and type conversions in Python
2) Use functions, control statements, strings, lists and dictionaries in python programming.
3) Demonstrate the concept of object, class inheritance and polymorphism in Python.
4) Write user defined functions, classes in python.
5) Develop programming skills to solve real time computational problems

Subject Code & Title: 23UAICP24 & PYTHON PROGRAMMING LAB

Course Objectives:

1) **U**nderstand the basics of python programming concepts.

2) **U**nderstand the high-performance programs designed to build up the real proficiency

Course Outcomes:

1) Describe the Control statement, String, List, and Dictionaries in Python.
2) Use functions and represent Compound data using Lists, Tuples and Dictionaries
3) Implement Conditionals and Loops for Python Programs
4) Understand and summarize different types of function and File handling operations.
5) Interpret Object programming in Python

Subject Code & Title: 23UAICE25 & DISCRETE MATHEMATICS – II

Course Objectives:

1)Mathematical Logic
2)Truth Table
3)Relations and Ordering

Subject Code & Title: 23UAIEN26 & DINTRODUCTION TO HTML

Course Objectives:

1) Insert a graphic within a web page.
2) Create a link within a web page.
3) Create a table within a web page.
4) Insert heading levels within a web page.
5) Insert ordered and unordered lists within a web page. Create a web page.

Course Outcomes:

1)Knows the basic concept in HTML .Concept of resources in HTML.
2)Knows Design concept. Concept of Meta Data. Understand the concept of save the files.
3)Understand the page formatting. Concept of list.
4)Creating Links. Know the concept of creating link to email address.
5)Concept of adding images. Understand the table creation.