



**ESWAR COLLEGE OF ENGINEERING: NARASARAOPET**  
Approved by AICTE, New Delhi., Affiliated to JNTUK, Kakinada  
Kesanupalli Village, Narasaraopet – 522 601,  
Palnadu Dist. A.P.

**DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE**

Course Outcomes

Regulation R23

**Year/Sem: II B.Tech I Sem**

<b>Course Name: DISCRETE MATHEMATICS AND GRAPH THEORY</b>	
Course Code :CSAI2101	
CSAI2101.1	Build skills in solving mathematical problems (L3)
CSAI2101.2	Comprehend mathematical principles and logic (L4)
CSAI2101.3	Demonstrate knowledge of mathematical modeling and proficiency in using mathematical software (L6)
CSAI2101.4	Manipulate and analyze data numerically and/or graphically using appropriate Software (L3)
CSAI2101.5	How to communicate effectively mathematical ideas/results verbally or in writing (L1)

<b>Course Name: Universal human values – understanding harmony and Ethical human conduct</b>	
Course Code: CSAI2102	
CSAI2102.1	Define the terms like Natural Acceptance, Happiness and Prosperity (L1, L2)
CSAI2102.2	Identify one's self, and one's surroundings (family, society nature) (L1, L2)
CSAI2102.3	Apply what they have learnt to their own self in different day-to-day settings in real life (L3)
CSAI2102.4	Relate human values with human relationship and human society. (L4)
CSAI2102.5	Justify the need for universal human values and harmonious existence (L5)
CSAI2102.6	Develop as socially and ecologically responsible engineers (L3, L6)

<b>Course Name: Artificial Intelligence</b>	
Course Code: CSAI2103	
CSAI2103.1	The student should be made to study the concepts of Artificial Intelligence.
CSAI2103.2	The student should be made to learn the methods of solving problems using Artificial Intelligence.
CSAI2103.3	The student should be made to introduce the concepts of Expert Systems.
CSAI2103.4	To understand the applications of AI, namely game playing, theorem proving, and machine learning.
CSAI2103.5	To learn different knowledge representation techniques

Course Name: <b>Advanced Data Structures &amp; Algorithm Analysis</b>	
Course Code: CSAI2104	
CSAI2104.1	provide knowledge on advance data structures frequently used in Computer Science domain
CSAI2104.2	provide knowledge on advance data structures like Min and Max Heaps
CSAI2104.3	Clique Decision Problem (CDP), Chromatic Number Decision Problem (CNDP), Traveling Salesperson Decision Problem (TSP)
CSAI2104.4	Develop skills in algorithm design techniques popularly used
CSAI2104.5	Understand the use of various data structures in the algorithm design

Course Name: <b>Object Oriented Programming Through Java</b>	
Course Code: CSAI2105	
CSAI2105.1	identify Java language components and how they work together in applications
CSAI2105.2	Learn the fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries.
CSAI2105.3	learn how to extend Java classes with inheritance and dynamic binding and how to use exception handling in Java applications
CSAI2105.4	understand how to design applications with threads in Java
CSAI2105.5	understand how to use Java APIs for program development

Course Name: <b>Advanced Data Structures and Algorithm Analysis Lab</b>	
Course Code: CSAI2106	
CSAI2106.1	acquire practical skills in constructing and managing Data structures
CSAI2106.2	apply the popular algorithm design methods in problem-solving scenarios
CSAI2106.3	Operations on AVL trees, B-Trees, Heap Trees□
CSAI2106.4	Graph Traversals, Sorting techniques
CSAI2106.5	Minimum cost spanning trees, Shortest path algorithms

Course Name: <b>Object Oriented Programming Through Java Lab</b>	
Course Code: CSAI2107	
CSAI2107.1	Practice object oriented programming in the Java programming language
CSAI2107.2	Implement Classes, Objects, Methods, Inheritance, Exception, Runtime Polymorphism, User defined Exception handling mechanism
CSAI2107.3	Illustrate inheritance, Exception handling mechanism, JDBC connectivity
CSAI2107.4	Construct Threads, Event Handling, implement packages, Java FX GUI
CSAI2107.5	JDBC connectivity

Course Name: <b>Python Programming</b>	
Course Code: CSAI2108	
CSAI2108.1	Introduce core programming concepts of Python programming language.
CSAI2108.2	Demonstrate about Python data structures like Lists, Tuples.
CSAI2108.3	Demonstrate about Python data structures like Sets and dictionaries,
CSAI2108.4	Implement Functions, and to create practical and contemporary applications using these.

CSAI2108.5	Modules and Regular Expressions in Python Programming
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Course Name: <b>Environmental Science</b>	
Course Code: CSAI2109	
CSAI2109.1	Grasp multidisciplinary nature of environmental studies and various renewable and non-renewable resources.
CSAI2109.2	Understand flow and bio-geo-chemical cycles and ecological pyramids.
CSAI2109.3	Understand various causes of pollution and solid waste management and related preventive measures.
CSAI2109.4	About the rainwater harvesting, watershed management, ozone layer depletion and waste landreclamation.
CSAI2109.5	Casus of population explosion, value education and welfare programmes