



**DNR COLLEGE OF ENGINEERING & TECHNOLOGY BHIMAVARAM**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**COURSE OUTCOMES**

<b>Program Name:</b>	IB. TECH CSE	<b>Class / Sem</b>	I/II
<b>Regulation</b>	R20		

**CO Statement -Linear Algebra And Numerical Methods- MII**

Describe the basic properties on elementary row and column operations
Find the characteristics equation, Eigen values and Eigen vectors.
Solve Orthogonalisation of the given matrix.
Evaluate the root of algebraic and transcendental equation
Determine interpolating polynomial for the given data.
Calculate the numerical solution of ordinary differentiation.

**CO Statement-APPLIED CHEMISTRY**

Differentiate the composite plastic materials.
Use the theory of construction of electrodes, batteries in redesigning new engineering products & categorize the reasons for corrosion
Synthesize materials for modern advances of engineering technology
Design models for energy by different natural sources
Analyze the principles of different analytical instruments
Describe molecular switches and machines

**CO Statement- COMPUTER ORGANIZATION**

Demonstrate and understanding of the design of the functional units of a digital computer system
Relate Postulates of Boolean algebra and minimize combinational functions
Recognize and manipulate representations of numbers stored in digital computers
Build the logic families and realization of logic gates
Design and analyze combinational and sequential circuits
Recall the internal organization of computers, CPU, memory unit and Input/Outputs and the relations between its main components

**CO Statement- PYTHON PROGRAMMING**

Describe the Python language syntax including control statements and functions to write programs for a wide variety problem in mathematics, science, and games.
Examine the core data structures like lists, dictionaries, tuples and sets in Python to store, process and sort the data.
Develop, run and manipulate Python Programs using File Operations
Interpret the concepts of OOPS by Using Python
Analyze and recover runtime exceptions arise in the applications.
Write the techniques in object-oriented programming to solve real world problems.

**CO Statement – DATA STRUCTURE**

An ability to Summarize the properties, interfaces and behaviors of basic abstract data type.

An ability to Describe different Sorting, Searching techniques and understand various file organizations.

An ability to Explain the basic data structures such as Arrays and Linked Lists.

An ability to Use Stacks and Queues in programming.

An ability to Demonstrate different methods for traversing trees.

An ability to Solve the problem involving Graphs.

**CO Statement – APPLIED CHEMISTRY Lab**

Done volumetric titrations acquires some volumetric skills and acid – base titrations.

Analyze hard and soft water

Know volumetric skills of red-ox titrations with different indicators

Estimate amount of vitamin c in given sample

Understand the synthesis of nylon & Bakelite

Handle the instruments like conductometer , potentiometer , colorimeter & p<sup>H</sup> meter

**CO Statement –python programming Lab**

Develop essential programming skills in computer programming concepts like data types, containers

Apply the basics of programming in the Python language

Solve coding tasks related conditional execution, loops

Solve coding tasks related to the fundamental notions and techniques used in object oriented programming

Design and implement a program to solve a real world problem.

Make database connectivity in python programming language.

**CO Statement – DATA STRUCTURE LAB**

Explain different sorting and searching algorithms

Describe various types of linked lists and their applications.

Use of stack, Queue and their applications

Classify simple applications using various data structures

Show the basic operations on trees

Determine minimum spanning tree by using Graphs

**CO Statement – ENVIRONMENT SCIENCE**

Understand and evaluate the global scale of environmental problems.

Recognize different types of resources like land, water, mineral and energy and also about the effects of environment by the usage of these resources.

Describe the ecosystem diversity, its values and also about the importance of the endemic species and different techniques involved in its conservation

Identify different types of pollutions and their control technologies, Waste water treatment, Bio medical waste management etc.,

Explain various environmental acts and disaster management

Discuss environmental assessment and the stages involved in EIA and the environmental audit