



Telangana Social Welfare Residential Degree College for Women, Nirmal

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DEPARTMENT OF COMPUTER SCIENCE

B.SC COMPUTER SCIENCE UNDER CBCS

PROGRAM OUTCOMES:

- PO1: To develop problem solving abilities using programming.
- PO2: To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- PO3: Empower the students in academic, social, psychological and economic arenas by developing relevant competences
- PO4: Acquire sufficient knowledge base in the Domain specific area leading to the pursuit of advanced level of study in the chosen domain specific area.
- PO5: Augment the recent developments in the field of IT and relevant fields of Research and Development.
- PO6: Adaptability and capacity building to the ever changing needs of the industry and employment opportunities.
- PO7: Provide insight to problem solving to succeed in technical profession through precise education and to prepare students to excel in postgraduate programs.
- PO8: Inculcate the human values through curricular , co-curricular and extra curricular activities.

COURSE OUTCOMES:

BSC COMPUTER SCIENCE I YEAR SEMESTER-I

COURSE TITLE: Programming in C

COURSE CODE:BS106

After completion of this course students will be able to

- CO1: Students will understand algorithms and flowchart for solving problems using computers.
- CO2: Students will understand and can choose the loops and decision-making statements to solve the problem.
- CO3: Student will implement different Operations on arrays and will use functions to solve the given problem.
- CO4: To enrich the students in logic development required for programming.

COURSE TITLE: C Lab

COURSE CODE: BS106

- CO1: Analyze logical thinking, algorithmic approach and their Complexity
- CO2: Identify the correct and efficient ways of solving problems.

BSC COMPUTER SCIENCE I YEAR SEMESTER-II

COURSE TITLE: Programming in C++

COURSE CODE: BS206

After completion of this course students will be able to

- CO1: Solve simple problems using the fundamental syntax and Semantics of the C++ programming language
- CO2: Implement Object Oriented Programming techniques using C++ programming
- CO3: Creation of C++ programs to develop applications with reusability Features.
- CO4: To enrich the students in developing C++ applications using Templates and handling exceptions.

COURSE TITLE: C ++ Lab

- CO1: Create simple programs using C++
- CO2: Implement Object Oriented Programs in C++

COURSE TITLE: Fundamentals of Computers

COURSE CODE: AECC

- CO1: Learn the basics of computer Hardware
- CO2: Describe the number systems in computer

BSC COMPUTER SCIENCE II YEAR SEMESTER-III

COURSE TITLE: Data Structures using C++

COURSE CODE: BS307

After completion of this course students will be able to

CO1: Describe the basic operations on different linear data structures, stacks and queues.

CO2: Analyze the operations like searching, insertion, deletion, traversing mechanism etc. on various data structures

CO3: Explain the notions of non linear data structures and analyze the application areas.

CO4: Describe the efficiency of algorithms with respect to the choice of data structures

COURSE TITLE: Data Structures using C++ Lab

COURSE CODE: BS307

CO1: Implement data structures such as stacks, queues, search trees and hash tables to solve various computing problems

CO2: Identify the appropriate data structures and algorithms for solving real world problems.

BSC COMPUTER SCIENCE II YEAR SEMESTER-IV

COURSE TITLE: Data Base Management Systems

COURSE CODE: BS407

After completion of this course students will be able to

CO1: Apply contemporary logical design methods and tools for databases

CO2: Derive a physical design for a database from its logical design

CO3: Describe SQL query language with appropriate applications

CO4: Understand the need of concurrency control in data bases

COURSE TITLE: Data Base Management Systems

COURSE CODE: BS407

CO1: Design relational database systems for a given problem

CO2: Formulate queries using SQL DML/DDL/DCL commands

COURSE TITLE: Python Programming

COURSE CODE: SEC-3

After completion of this course students will be able to

CO1: Classify data using data structures such as lists, tuples, and dictionaries

CO2: Learn the concepts of Python such as file I/O operations, Modules and Packages to develop the applications

BSC COMPUTER SCIENCE III YEAR SEMESTER-V

COURSE TITLE: Programming in JAVA

COURSE CODE: BS506

After completion of this course students will be able to

CO1: Solve simple problems using the fundamental syntax and semantics of the Java programming language

CO2: Construct programs with the object-oriented language Java.

CO3: Build on the constructs of sequence, selection, and repetition to develop programs using objects, methods, data abstraction, inheritance, and polymorphism

CO4: Build the applications using AWT and Swings Components

COURSE TITLE: JAVA Lab

COURSE CODE: BS506

CO1: Implement Object Oriented Programming concepts using Java.

CO2: Write Programs using Java AWT

BSC COMPUTER SCIENCE III YEAR SEMESTER-VI

COURSE TITLE: Web Technologies
COURSE CODE: BS606

After completion of this course students will be able to

CO1: Examine a web page elements and attributes.

CO2: Create static web pages using HTML and CSS

CO3: Develop a dynamic webpage using java script and DHTML

CO4: Describe concepts of XML and AJAX

COURSE TITLE: Web Technologies Lab
COURSE CODE: BS606

CO1: Develop a webpage(static/dynamic) using HTML and CSS

CO2: Implement the applications using JavaScripts and XML