"Education for Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

Department of Computer Science

Course Outcomes (Cos)

Semester-I

Course I- Problem Solving using Computers & Database Management System-I(DSC-1006A)

After completing course I the student will be able to ..

CO1	Learn and Understand Basics of Programming Languages and Database Management Systems.
CO2	Learn and understand basics of Python Programming and Concepts of Database Management System.
CO3	Design small problems using Python Programming Language and DBMS Environment.
CO4	Solve and Analyze small problems with different problem-solving techniques.
CO5	Explain and Justify problem solving techniques and concepts
CO6	Create simple programs and Build simple database queries

Semester-II

Course II- Problem Solving using Computers & Database Management System-II(DSC-1006B)

After completing course II the student will be able to ..

CO1	Learn and understand the related and extended concepts of Python Programming and Database Management System
CO2	Design complex problems using Python Programming Language and DBMS Environment.
CO3	Recognize and identify the different concepts available in Python programming and DBMS
CO4	Solve and Analyze complex problems with different problem-solving techniques.
CO5	Explain and Justify problem solving techniques and concepts
CO6	Formulate, Construct and Demonstrate case studies.

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Semester-III

Course III- Operating System and Object-Oriented Programming (DSC-1006C)

After completing course III the student will be able to ..

CO1	Learn and understand the basics of operating system and Object-Oriented programming concepts.
CO2	Learn and understand the basics of LINUX operating system and Object-Oriented programming concepts using Python.
CO3	Define, Discuss and Explain the concepts of OS and features of OOPs
CO4	Illustrate and construct Linux commands and basics of OOPs
CO5	Solve and Analyse problems with object-oriented concepts
CO6	Compile, Design and Construct case studies

Semester-IV

Course IV- Operating System and Data Structures (DSC-1006D)

After completing course IV the student will be able to ..

CO1	Learn and understand the related and extended concepts of OS and basics of Data Structures.
CO2	Learn and understand the concepts of LINUX scripting and data structures.
CO3	Illustrate and construct Linux shell scripts and different types of data structures in Python
CO4	Solve and Analyse problems using shell scripts and different types of data structures
CO5	Explain and Determine scope of shell scripting and data structures in different applications
CO6	Construct and Build case studies of shell scripting and Data Structures

Semester-V

Course V- Computer Network and Software Engineering (DSE-1006E1)

After completing course V the student will be able to ..

CO1	Learn and Understand the basic Computer Network and Software engineering concepts
CO2	Learn and Understand Linux administration and Software Project Management.
CO3	Illustrate and Demonstrate Linux administration commands and Software Required Specification with use cases
CO4	Apply Linux administration commands to configure Network Topologies and Design SRS.
CO5	Analyze and Design SRS , test cases and local area Network for small laboratory.
CO6	Design SRS and test designs with use cases and construct local area Network for small laboratory.

Course VI- Internet Technologies – I and Introduction to JAVA(DSE-1006E2)

After completing course VI the student will be able to ..

CO1	Learn and Understand basics Java Programming Language, Flask Micro Framework Flask and Python
CO2	Apply Object Oriented Concepts with Java and understanding the basic of Web Development using Flask and Python
CO3	Recognize and identify the different concepts available in Java and Flask with Python
CO4	Solve and Analyze complex problems with different problem-solving concepts.
CO5	Design small applications using Java and Web Applications using Flask
CO6	Construct standalone and web applications using Java and Flask

Semester-VI

Course VII- Advanced Computer Network and Object-Oriented Software Engineering (DSE-1006F1)

After completing course VII the student will be able to ..

CO1	Learn and Understand various OOSE concepts and advanced network concepts.
CO2	Illustrate and Demonstrate advanced network concepts and UML diagrams.
CO3	Design and Apply Network Concepts and UML Diagrams.
CO4	Analyze applied Network Concepts and designed UML Diagrams.
CO5	Design case studies for small network and software system applications.
CO6	Construct and Develop small case studies

Course VIII- Internet Technologies – II and Data Science using Python (DSE-1006F2)

After completing course VIII the student will be able to ..

CO1	Learn and Understand advanced concepts of Web Development using Flask and Python and basics of data science.
CO2	Learn and Understand basics of application deployment and Machine Learning concepts.
CO3	Apply web development and Data science concepts and methods to solve small problems in real-world contexts
CO4	Analyze web development and data science concepts with small problems.
CO5	Design and Analyze case studies.
CO6	Implement Machine Learning Algorithms and web applications

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