Course Outcomes: DSC-3A Object Oriented Programming using C++

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Create simple programs using classes and objectsin C++.	**PO3, PO7 PSO1**	**K6**
CO2	Implement Object Oriented Programming Concepts in C++.	**PO2, PO7 PSO3**	**K3**
CO3	Develop applications using stream I/O and file I/O.	**PO6, PO7, PSO2**	**K6**
CO4	Implement Object Oriented Programs usingtemplates and exceptional Handling concepts.	**PO3, PO7, PSO3**	**K3**
CO5	Identify importance of object-oriented programming and difference between structuredoriented and object-oriented programming features.	**PO2, PO7, PSO2**	**K2**

Course Outcomes: DSC-3A Practical -1: Object Oriented Programming using C++ Lab

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Create simple programs using classes and objectsin C++.	**PO3, PO7, PSO1**	**K6**
CO2	Implement Object Oriented Programming Concepts in C++.	**PO2, PO7, PSO3**	**K3**
CO3	Develop applications using stream I/O and file I/O.	**PO6, PO7, PO10, PSO2**	**K6**
CO4	Implement Object Oriented Programs usingtemplates and exceptional Handling concepts.	**PO3, PO7, PSO3**	**K3**

Course Outcomes: DSC-3BData Structures and File Processing

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understand basic and data structures dealingwith algorithm development using C++.	PO2, PO7, PSO2	K2
CO2	Apply search and sort techniques concord withreal-time computational problems.	PO2, PO7, PSO2	K3
CO3	Analyze data structures dealing with algorithmdevelopment viz. stacks, queues, lists, trees, and graphs.	PO2, PO7, PSO4	K4
CO4	Construct algorithmic approaches in real timecomputational environment.	PO2, PO7, PSO1,PS04	K6
CO5	Analyze non-linear data structure tree.	PO10, PO7, PSO3	K4
CO6	Understand representation, operations, and traversal mechanisms to implement theConcept of a graph.	PO3, PO7, PSO4	K2

Course Outcomes: DSC-3B Practical –II Data Structures and File Processing Lab

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understand a systematic approach to organizing, writing, and debugging using C++.	PO2, PO7, PSO1	K2
CO2	Apply search and sort techniques concord withreal-time computational problems.	PO2, PO7, PSO1	K3
CO3	Analyze data structures dealing with algorithmdevelopment viz. stacks, queues, lists, trees, and graphs.	PO2, PO7, PSO4	K4
CO4	Construct algorithmic approaches in real timecomputational environment.	PO2, PO7, PSO2	K6
CO5	Analyze non-linear data structure tree.	PO4, PO7, PSO3	K4
CO6	Understand representation, operations and traversal mechanisms to implement theConcept of a graph.	PO3, PO7, PSO4	K2

Course Outcomes: DSC-3C Numerical Computing

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understand basic knowledge in solving interpolation with equal interval problems by various numerical methods. Estimate the missing terms through interpolation methods.	**PO2, PO7, PSO3**	**K2**
CO2	Apply appropriate numerical methods to solve the problem with most accuracy.	**PO2, PO7, PSO1, PSO4**	**K3**
CO3	Compare different methods in numerical analysis with accuracy and efficiency of solution	**PO2, PO7, PSO4**	**K4**
CO4	Understand to derive Trapezoidal rule, Simpson's 1/3 – rule, Simpson's 3/8 – rule, and Weddle's rules from General Quadrature formula and find the Euler – Maclaurin Formula of summation and The Euler transformation.	**PO3, PO7, PSO4**	**K2**

Course Outcomes: DSC-3C Practical –III Numerical Computing Lab

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understand basic knowledge in solving interpolation with equal interval problems by various numerical methods. Estimate the missing terms through interpolation methods.	**PO7, PO10, PSO2**	**K2**
CO2	Apply appropriate numerical methods to solve the problem with most accuracy.	**PO2, PO7, PSO1, PSO2**	**K3**
CO3	Compare different methods in numerical analysis with accuracy and efficiency of solution	**PO2, PO7, PSO4**	**K4**
CO4	Understand to derive Trapezoidal rule, Simpson's 1/3 – rule, Simpson's 3/8 – rule, and Weddle's rules from General Quadrature formula and find the Euler – Maclaurin Formula of summation and The Euler transformation.	**PO3, PO7, PSO4**	**K2**

Course Outcomes: DSC-3D Design and Analysis of Algorithm

Sl No.	Outcome Statement	PO/PSO	Cognitive Level
CO1	Able to Argue the correctness of algorithms using inductive proofs and analyze worst-caserunning times of algorithms using asymptotic analysis	PO3, PO7, PSO4	Analyze
CO2	Able to explain important algorithmic design paradigms (divide-and-conquer, greedy method, dynamic-programming, and Backtracking) and apply when algorithmic design situation calls for it.	PO6, PO7, PSO1,PSO4	Create
CO3	Able to Compare between different datastructures and pick an appropriate data structure for a design situation.	PO4, PO7, PSO3	Analyze

Course Outcomes: DSC-3D Practical-IV: Design and Analysis of Algorithm Lab

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Create the programs in CPP to solve problems usingalgorithm design techniques	PO3, PO7, PSO1, PSO2	K6
CO2	Ability to write programs in CPP to solve problemsusing divide and conquer strategy	PO2, PO7, PSO1, PSO2	K3
CO3	Ability to write programs in CPP to solve problemsusing backtracking strategy	PO2, PO7, PSO1, PSO4	K3

Course Outcomes: DSC-3a Java Programming

Sl. No.	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understand the concepts related to JavaTechnology.	PO7, PO10, PSO3	K2
CO2	Use an integrated development environment towrite, compile, run, and test simple object-oriented Java programs.	PO7, PO2, PSO1, PSO2	K3
CO3	Develop advanced skills for programming inJava	PO7, PO3, PSO1	K6
CO4	Examine skills to develop real time applications	PO7, PO3, PSO1, PSO4	K4

Course Outcomes: DSC-3 Practical-V(a) Java Programming Lab

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Able to implement programs for solving real world problems using java collection framework.	PO2, PO7, PSO1, PSO2	K3
CO2	Able to execute programs using abstract classes.	PO7, PO2, PSO2	K3
CO3	Able to Develop multithreaded programs.	PO7, PO2, PSO1,PSO4	K6
CO4	Able to Design GUI programs using swingcontrols in Java	PO7, PO2, PSO1	K6

Course Outcomes: SEC-1(b) PHP Programming

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Understanding basic concepts PHP Programming	PO3, PO7, PSO2	K2
CO2	Analyze PHP scripts and determine their behavior.	PO2, PO7, PSO2	K4
CO3	Construct PHP scripts to create dynamic webcontent.	PO2, PO7, PSO1,PSO4	K6

CO4	Differentiate between GET and Post requests	**PO2, PO7, PSO3**	**K6**

Course Outcomes: DSC-6(a) Python Programming

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Apply a new computational problem and develop a plan to solve it through problem understanding and decomposition.	**PO2, PO7, PSO4**	**K3**
CO2	Design creation process that includes specifications, algorithms, and testing.	**PO4, PO7, PSO1**	**K6**
CO3	Develop Code, test, and debug a program in Python, based on your design. Important computer science concepts such as problem solving (computational thinking), problem decomposition, algorithms, abstraction, and Software quality is emphasized throughout.	**PO6, PSO1**	**K6**
CO4	Apply application development and prototyping using Python.	**PO6, PSO2**	**K3**
CO5	Apply fundamental problem-solving techniques.	**PO4, PSO2**	**K3**

Course Outcomes: DSC-6 Practical-VI: (a) Python Programming Lab

Sl. No.	Outcome Statement	PO/PSO	Cognitive Level
CO1	Design, Test and Debug Python Programs	**PO3, PO7, PSO1, PSO2**	**K6**
CO2	Implement Conditionals and Loops for Python Programs	**PO2, PSO1, PSO2**	**K3**
CO3	Implement functions concept and represent Compound data using Lists, Tuples and Dictionaries	**PO2, PSO1, PSO4**	**K3**
CO4	Designing GUI interfaces and writing event handling code	**PO2, PO7, PSO1, PSO2**	**K6**

Course Outcomes: SEC-4 (a) MySQL (SQL/PLSQL)

Sl.No	Outcome Statement	PO/PSO	Cognitive Level
CO1	Describe the features and benefits of MySQL.	**PO4, PO7, PSO2**	**K2**
CO2	Explain the basics of relational databases.	**PO2, PSO2**	**K2**
CO3	Design an effective database.	**PO2, PO7, PSO4**	**K6**
CO4	Construct MySQL statements from the MySQL command-line client.	**PO2, PO3, PSO1,**	**K6**
CO5	Select appropriate data types for your database.	**PO2, PO7, PSO3**	**K2**