

Kalinga University

Information Technology

Post Graduation Diploma In Computer Applications

PO

S. No.	Program Outcome (PO) Description
1	Computational Knowledge: Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
2	Problem Analysis: Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.
3	Design / Development of Solutions: Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies
4	Conduct Investigations of Complex Computing Problems: Ability to devise and conduct experiments, interpret data and provide well informed conclusions
5	Modern Tool Usage: Ability to select modern computing tools, skills and techniques necessary for innovative software solutions
6	Professional Ethics: Ability to apply and commit professional ethics and cyber regulations in a global economic environment.
7	Life-long Learning: Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
8	Project Management: Ability to understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.
9	Communication Efficacy: Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
10	Societal & Environmental Concern: Ability to recognize economic, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.
11	Individual & Team Work: Ability to work as a member or leader in diverse teams in multidisciplinary environment.

12	Innovation and Entrepreneurship: Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.
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PSO

S. No.	Program Specific Outcome (PSO) Description
1	Learn basic software commonly used in office setup.
2	Apply good programming design methods for program development.
3	Create competent students to work in IT industry.
4	Attain excellence in the area of Computer Applications
5	Develop technical writing skills for information technology-related concepts



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CO

S.No.	Course Code	Course Name	Course Outcome (CO's) - Description
1	PGDCA101	Fundamental of Information Technology	CO1: To understand the generation and classification of computer system.
			CO2: To familiarize the concept of internet and its related technologies.
			CO3: To gain knowledge of various operating systems.
			CO4: Know evolution of digital computer and various technologies.
			CO5: Acquire the knowledge the internet and related technologies.
2	PGDCA102	Programming in C++	CO1: To understand the concepts of C++ and applications of object-oriented programming concepts.
			CO2: To understand the concepts of classes and objects in object-oriented programming.
			CO3: To use the advanced features of OOP such as polymorphism and Function Overloading.
			CO4: To learn the concepts of Inheritance, constructor and virtual function.
			CO5: To understand and implement templates to create flexible and reusable code.
3	PGDCA103	DBMS Concepts	CO1: Create and maintain databases and tables.
			CO2: Study fundamentals of Recent and Emerging Database Systems in Market.
			CO3: Start up and shut down an Oracle instance and database
			CO4: Manage transactions and locks to ensure data concurrency and recoverability.
			CO5: Manipulate data in a database using SQL.
4	PGDCA104	Business Communication	CO1: Apply the learned grammar concepts to construct grammatically accurate sentences in reading and writing.
			CO2: Understand the process of communication and analyze various media of communication, including oral, written, and visual communication tools
			CO3: Understand the various functions and types of business letters used in corporate communication.
			CO4: Develop a strong understanding of business manners and etiquette, including appropriate behavior, courtesy, and professionalism in various business settings.
5	PGDCA201	Programming using VB .NET	CO1: Learn the concepts of visual development and event-driven programming in .NET, including methods and events.
			CO2: learn various control flow statements, including conditional and loop statements, and utilize MsgBox and InputBox for user interactions.
			CO3: Explore the principles of polymorphism, interfaces, overloading, overriding, and the use of keywords like MyBase and MyClass.

			CO4: Explore file handling in VB.NET using classes from the System.IO namespace, including reading and writing data from and into files CO5: Understand how to connect to databases using various techniques such as connections, data adapters, and datasets. Learn to create and manipulate data with ADO.NET.
6	PGDCA202	Programming in Python	CO1: Understand the history, features, and advantages of the Python programming language. CO2: Learn about dictionaries in Python, including how to access values in dictionaries, work with dictionaries, and utilize dictionary properties and functions. CO3: Understand the concept of exceptions and learn how to handle exceptions using try, except, and finally clauses. Explore user-defined exceptions for custom error handling. CO4: Understand various data structures in Python, including arrays, sets, stacks, queues and various data structures in Python, including arrays, sets, stacks, and queues CO5: Learn about multithreading in Python, including starting threads, using the threading module, synchronizing threads, and managing a multithreaded priority queue.
7	PGDCA203	Web Technology & Multimedia	CO1: Students will gain an understanding of web-related concepts and HTML. CO2: Understand the concept of tables,frames and forms in web design CO3: Introduce students to JavaScript,JavaScript objects and their usage CO4: Learn about multimedia types, MIDI Basic Concepts and Animation. CO5: To learn the basics of Flash animation and Adobe photoshop.
8	PGDCA204	Data Structures	CO1: Students will understand the representation of single and multidimensional arrays, including the concepts of indexing and accessing array elements. CO2: Students will be introduced to the concepts of stacks and queues, including their primitive operations. CO3: To learn the concepts of linked lists and binary trees CO4: Understand the concept of multilevel indexing as an efficient approach to tree indexes. CO5: Learn about linear search, binary search, and hashing as fundamental searching techniques.