



Khentawas, Farrukh Nagar, Gurugram, Haryana
Approved by: All India Council for Technical Education (AICTE), New Delhi
Affiliated to: Gurugram University, Gurugram

**DEPARTMENT OF Computer Science and Engineering-Artificial Intelligence &
Machine Learning**

ACADEMIC YEAR 2023-24

SEMESTER Vth

Computer Networks (PCC-CSE-303G)

Course Outcome(CO)	DetailsofCourseOutcomes
(CO1)	Explain the functions of the different layer of the OSI Protocol
(CO2)	Draw the functional block diagram of wide-area networks (WANs), local areanetworks (LANs) and Wireless LANs (WLANs) and describe the function of each.
(CO3)	Identify and connect various connecting components of a computer network.
(CO4)	Configure DNS DDNS, TELNET, EMAIL, File Transfer Protocol (FTP), WWW, HTTP,SNMP, Bluetooth, Firewalls using open source available software and tools.

Design and Analysis of Algorithms (PCC-CSE-307G)

Course Outcome(CO)	DetailsofCourseOutcomes
(CO1)	To identify and justify correctness of algorithms and to analyse running time of algorithms based on asymptotic analysis.
(CO2)	To understand when an algorithmic design situation calls for the divide-and-conquer paradigm. Synthesize divide-and-conquer algorithms.
(CO3)	Describe the greedy paradigm and dynamic-programming paradigm. Explain when an algorithmic design situation calls for it.
(CO4)	Developing greedy algorithms/dynamic programming algorithms, and analyze it to determine its computational complexity
(CO5)	To write the algorithm using Backtracking and Branch and Bound strategy to solve the problems for any given model engineering problem.

Big Data & Analytics (PCC-DS-306G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(C01)	Understand the key issues in big data management and its associated applications for business decisions and strategy
(C02)	Develop problem solving and critical thinking skills in fundamental enabling techniques like Hadoop, MapReduce and NoSQL in big data analytics.
(C03)	Collect, manage, store, query and analyze various forms of Big Data.
(C04)	Interpret business models and scientific computing paradigms and apply software tools for big data analytics
(C05)	Adapt adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.

Automata Theory & Compiler Design (PCC-DS-305G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(C01)	Read and write finite automata and grammars for programming language constructs.
(C02)	Understand the functionality of parsing mechanisms.
(C03)	Construct syntax trees and generate intermediate code.
(C04)	Understand the concepts of storage administration for different programming environments.
(C05)	Understand the concepts of optimization and generate the machine code.

Neural Networks Fundamentals (PCC-AI-301G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(C01)	Know the purpose of Artificial Neural Networks
(C02)	Apply the concepts of activation, propagation functions
(C03)	Work with supervised learning network paradigm
(C04)	Work with unsupervised learning network paradigm

(CO5)	Know the purpose and working of Neural Networks memory concepts
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Algorithms Design Using C++ Lab (LC-CSE-325G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	The course will help in improving the programming skills of the students
(CO2)	The design of algorithms for any problem will inculcate structured thinking process in the students and improve the analytical power.

DevOps Overview (PEC-DS-309G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Get thru the traditional software development process.
(CO2)	Learn the Agile methodologies and its Developments
(CO3)	Make a way to DevOps as a practice, methodology and process for fast collaboration, integration and communication between Development and Operations team.
(CO4)	Master in Continuous Integration, Continuous Deployment, Continuous Delivery, Configuration Management and Continuous Monitoring

Advance Java Programming (PEC-DS-311G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Choose the appropriate OOP technique for solving the given problem and use multithreads when required.
(CO2)	Design Graphical User Interface using AWT and Swing
(CO3)	Build and Deploy distributed applications using RMI and CORBA
(CO4)	Design, Develop and Deploy dynamic web applications using Servlets with JDBC.
(CO5)	Design and Develop applications using JSP and Enterprise Java Bean.
(CO6)	Recognize the capabilities of java framework to facilitate solving industrial applications using Spring framework.

Data Analytics Basics (PEC-DS-313G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Get through the Data analyticstasks, methods and process in realworld
(CO2)	Wellfamiliar briefconceptsofdata exploratoryanalytics
(CO3)	Design, Develop and Deploy the dashboard with data interaction and visualization techniques.
(CO4)	Choose the appropriate simulation and visualization trendsforits volumetric data.

SOFTWARE ENGINEERING (PEC CSE-311G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment
(CO2)	An ability to work in one or more significant application domains
(CO3)	Work as an individual and as part of a multidisciplinary team to develop and deliver quality software
(CO4)	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle
(CO5)	Demonstrate an ability to use the techniques and tools necessary for engineering practice