DRONACHARYA
College of Engineering

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

DEPARTMENT OFELECTRONIC AND COMPUTER ENGINEERING

ACADEMIC YEAR 2023-24

SEMESTER VIth

ENGINEERING ETHICS (HUM-ECE306G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	apply ethics in society
(CO2)	discuss the ethical issues related to engineering
(CO3)	realize the responsibilities and rights in the society
(CO4)	realize the importance of sustainable development

NANO ELECTRONICS (PEC-ECE309G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understand various aspects of nano-technology and the processes involved in making nano components and material.
(CO2)	Leverage advantages of the nano-materials and appropriate use in solving practical problems
(CO3)	Understand various aspects of nano-technology and the processes involved in making nano components and material.

Mobile and wireless communication (ESC -CSE -308G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understand the wireless/cellular radio concepts such as frequency reuse, handoff and interference between mobiles and base stations.
(CO2)	Identify the techno-political aspects of wireless and mobile communications such as the allocation of the limited wireless spectrum by regulatory agencies.
(CO3)	Understand the information theoretical aspects such as channel capacity, propagation effects, modeling the impact of signal bandwidth and motion in mobile systems.
(CO4)	Describe the current and future Mobile Communication Systems, GSM, Satellite, Broadcasting, Bluetooth, Wireless LANs, Mobile Adhoc Networks.
(CO5)	Describe the mobility support mechanism, WWW and WAPs.

CONTROL SYSTEMS (PCC-ECE302G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Characterize a system and find its steady state behaviour
(CO2)	Analyse the time domain specification and calculate steady state errors..
(CO3)	Investigate stability of a system using different tests
(CO4)	Illustrate the state space model of a physical system.

ADVANCED DATABASE MANAGEMENT SYSTEM (PEC-CSE-310G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Students will get understanding of DBMS Components, Its advantages and disadvantages.
(CO2)	Understanding about various types of Data modeling: ER, EER, Network, Hierarchical and Relational data models.
(CO3)	Understanding normalization, general strategies for query processing, query processor, syntax analyzer, Query decomposition, Heuristic Query optimization.

(CO4)	Understanding transaction concept, schedules, serializability, locking and concurrency control protocols.

MOBILE APPLICATIONS DEVELOPMENT (PEC-CSE-312G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Explain the principles and theories of mobile computing technologies.
(CO2)	Describe infrastructures and technologies of mobile computing technologies.
(CO3)	List applications in different domains that mobile computing offers to the public, employees, and businesses.
(CO4)	Describe the possible future of mobile computing technologies and applications.
(CO5)	Effectively communicate course work through written and oral presentations

COMPUTER GRAPHICS (PEC-CSE-314G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understanding of the software, hardware and applications of Computer Graphics
(CO2)	Understanding of Scan conversion, 2D, 3D – transformation and viewing.
(CO3)	To be able to implement picture on screen using projection, shading, image processing and illumination model.

DISTRIBUTED SYSTEM (PEC-CSE-316G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	List the principles of distributed systems and describe the problems and challenges associated with these principles.
(CO2)	Understand Distributed Computing techniques, Synchronous and Processes.
(CO3)	Apply Shared Data access and Files concepts.
(CO4)	Design distributed system that fulfills requirements with regards to key distributed systems properties
(CO5)	Understand Distributed File Systems and Distributed Shared Memory.

(CO6)	Apply Distributed web-based system and understand the importance of security in distributed system

INFORMATION TECHNOLOGY & INDUSTRY BUSINESS SKILLS (PEC-CSE-318G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Student will understand the concept of web services of amazon, virtual machines and their working.
(CO2)	For a given region the availability of resources and cost management.
(CO3)	For a given application scalable model and selection of services.

DATA SCIENCE (PCC-CSE-320G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understand the value of data science and the process behind using it.
(CO2)	Use Python to gather, store, clean, analyse, and visualise data-sets.
(CO3)	Apply toolkits to formulate and test data hypotheses and uncover relationships within data-sets
(CO4)	Understand the data science methodology in the data science pipeline
(CO5)	Understand real-world challenges with several case studies

VHDL AND DIGITAL DESIGN (PEC-CSE-332G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understand the need & application of hardware description language
(CO2)	Modelling & simulations of various basic & advanced digital systems using VHDL.
(CO3)	Implementation of various basic & advanced digital systems using FPGAs.
(CO4)	Apply knowledge to design & implement combinational circuits & sequential circuits related to research & industry applications.