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 OFComputer Science and Engineering(Internet of Things and Cyber Security Including Block Chain) Technology)

ACADEMIC YEAR 2023-24

SEMESTER Vth

Microprocessor (ECS-CSE-301G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Understandtheoperationandarchitectureof Intel8085microprocessorincluding InstructionSetArchitecture,assemblylanguage programming,timingandspeedofoperation.
(CO2)	Learntheoperationofcircuitsforuserinteractionthroughswitches,keyboardand displaydevices.
(CO3)	Understand the operation and architecture of Intel 8086 microprocessor including Instruction Set Architecture, assembly language programming, timing and speed of operation.
(CO4)	Understandthemotivationandneedforperipheraloperationscircuitsfordigital dataexchange, timer, serialcommunication, meritsofdirectmemoryaccess,interruptcontrollerandothercircuits.

COMPUTER NETWORKS (PCC-CSE-303G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Explain thefunctionsof thedifferent layerof theOSI Protocol.
(CO2)	Draw the functional block diagram of wide-area networks (WANs), local area networks (LANs) andWireless LANs(WLANs) anddescribe thefunctionof each.
(CO3)	Identify and connectvarious connectingcomponents ofa computernetwork.
(CO4)	ConfigureDNSDDNS,TELNET,EMAIL,File TransferProtocol(FTP),WWW,HTTP, SNMP, Bluetooth,Firewalls usingopensourceavailablesoftware andtools.

FORMAL LANGUAGES AND AUTOMATA (PCC-CSE-305G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Touse basic conceptsof formallanguages of finiteautomatatechniques.
(CO2)	ToDesignFiniteAutomata'sfordifferent RegularExpressionsandLanguages.
(CO3)	ToConstructcontext freegrammarforvarious languages.
(CO4)	To solve various problems of applying normal form techniques, push down automataandTuringMachines.

DESIGN AND ANALYSIS OF ALGORITHMS (PCC-CSE-307G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Toidentifyand justifycorrectnessofalgorithmsandtoanalyserunningtimeof algorithms based on asymptotic analysis.
(CO2)	Tounderstandwhenanalgorithmicdesignsituationcallsforthedivide-and-conquer paradigm.Synthesize divide-and-conqueralgorithms.
(CO3)	Describethegreedyparadigmanddynamic-programmingparadigm.Explainwhen analgorithmic designsituationcallsforit.
(CO4)	Developinggreedyalgorithms/dynamicprogrammingalgorithms,and analyse itto determineitscomputationalcomplexity.
(CO5)	TowritethealgorithmusingBacktrackingandBranchandBoundstrategytosolve theproblemsforanygivenmodelengineeringproblem.

PROGRAMMING IN JAVA (PCC-CSE-309G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Knowledge ofthe structure and model of the Java programming language, (knowledge)
(CO2)	Use the Java programming language for various programming technologies(understanding)
(CO3)	DevelopsoftwareintheJava programminglanguage

INTERNET OF THINGS (PCC-IOT-301G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Comprehend the essentials of IoT
(CO2)	Understand IoT Architecture & enabling technologies
(CO3)	Understand various IoT protocols
(CO4)	Understand IoT applications in different domain and be able to analyze their performance.

DESIGN & ANALYSIS OFALGORITHMS LAB USING C++ (LC-CSE-325G)

CourseOutcome(CO)	DetailsofCourseOutcomes
(CO1)	Thecoursewillhelpinimprovingtheprogrammingskillsof thestudents.
(CO2)	The design of algorithms for any problem will inculcate structured thinking processin thestudents andimprove theanalytical power.