Discrete Mathematics : C201 Year of study:2019-20

CO1	Have knowledge of the concepts needed to test the logic of a program.
CO2	Have an understanding in identifying structures on many levels.
CO3	Be aware of a class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.
CO4	Be aware of the counting principles.
CO5	Be exposed to concepts and properties of algebraic structures such as groups, rings and fields.

Digital Principles and System Design: C202 Year of study:2019-20

CO1	Simplify Boolean functions using Kmap
CO2	Design and Analyze Combinational and Sequential Circuits
CO3	Implement designs using Programmable Logic Devices
CO4	Write HDL code for combinational and Sequential Circuits
CO5	Identify the characteristics of various memory systems and I/O communication

Data Structures: C203 Year of study:2019-20

CO1	Implement abstract data types for linear data structures
CO2	Critically analyze the various sorting algorithms
CO3	Apply the different linear and non-linear data structures to problem solutions
CO4	The Student can know to implement graph representation and graph traversal
CO5	The Student will able to implement different sorting algorithms (Bubble Sort, Radix Sort, Shell Sort)

Object Oriented Programming: C204 Year of study:2019-20

CO1	Develop Java programs using OOP principles
CO2	Develop Java programs with the concepts inheritance and interfaces
CO3	Build Java applications using exceptions and I/O streams
CO4	Develop Java applications with threads and generics classes
CO5	Develop interactive Java programs using swings

Communication Engineering: C205 Year of study:2019-20

CO1	Ability to comprehend and appreciate the significance and role of this course in the present contemporary world
CO2	Apply analog and digital communication techniques
CO3	Use data and pulse communication techniques
CO4	Analyze Source and Error control coding
CO5	

Data Structures Laboratory: C206 Year of study:2019-20

CO1	Write functions to implement linear and non-linear data structure operations
CO2	Suggest appropriate linear / non-linear data structure operations for solving a given problem
CO3	Appropriately use the linear / non-linear data structure operations for a given problem
CO4	Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval
CO5	Analyze the various searching and sorting algorithms.