Academic Calendar for the session of 2020 -21 ODD Semester

SEM 1 - CMSGCOR01T : PROBLEM SOLVING WITH COMPUTER

DURATION	TOPIC	DETAILS	LECTURES TO BE	NO. OF
			DELEVERD BY	LECTURES
August To September	Computer Fundamentals:	 Introduction to Computers: Characteristics of Computers, Uses of computers, Types and generations of Computers. (3L) Basic Computer Organization - Units of a computer, CPU, ALU, memory hierarchy, registers, I/O devices 	DG	3
Mid- September to November	Planning the Computer Program	Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation	PD	3
	Techniques of Problem Solving	Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.	DG	4
	Overview of Programming	Structure of a Python Program, Elements of Python	PD	8
November	Introduction to Python	Python Interpreter, Using Python as calculator, Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings, Operators (Arithmetic operator, Relational operator, Logical or Boolean operator, Assignment, Operator, Ternary operator, Bit wise operator, Increment or Decrement operator).	PD	10
December	Creating Python Programs	Input and Output Statements, Control statements (Looping while Loop, for Loop , Loop Control, Conditional Statement- ifelse, Difference between break, continue and pass). Structures: Numbers, Strings, Lists, Tuples, Dictionary, Date & Time, Modules, Defining Functions, Exit function, default arguments.	DG	10
	Introduction to Advanced Python	Objects and Classes, Inheritance, Regular Expressions ,Event Driven Programming, GUI Programming.	DG	14

DISCIPLINE SPECIFIC ELECTIVE PAPERS SEM V CMSGDSE01T: PROGRAMMING IN JAVA

DURATION	TOPIC	DETAILS	LECTURES TO BE	NO. OF
			DELEVEND BI	LECTORES
July To	Introduction		DG	2
Mid-August	to Java:	Features of Java, JDK Environment		
	Object Oriented Programming Concept	Overview of Programming, Paradigm, Classes, Abstraction, Encapsulation, Inheritance, Polymorphism, Difference between C++ and JAVA	DG	12
	Java Programming Fundamental	:Structure of java program, Data types, Variables, Operators, Keywords, Naming Convention, Decision Making (if, switch),Looping(for, while) ,Type Casting	DG	12
Mid-August To September	Classes and Objects	: Creating Classes and objects, Memory allocation for objects, Constructor Implementation of Inheritance, (12L) Implementation of Polymorphism, Method Overloading, Method Overriding, Nested and Inner classes	DG	12
	Arrays and Strings:	Arrays, Creating an array, Types of Arrays, String class Methods, String Buffer methods.	PD	8
	Abstract Class, Interface and Packages	: Modifiers and Access Control, Abstract classes and methods, Interfaces, Packages Concept, Creating user defined packages	DG	10
November	Exception Handling:	Exception types, Using try catch and multiple (6L) catch, Nested try, throw, throws and finally, Creating User defined Exceptions.	PD	6
December	File Handling	: Byte Stream, Character Stream, File IO Basics, File Operations, Creating file, Reading file, Writing File	DG	6
	Applet Programming:	In t roduction, Types Applet, Applet Life cycle, Creating Applet, Applet tag	PD	7

SEM III CMSGCOR03T: OPERATING SYSTEMS

Class started from 20th September

DURTION	TOPIC	DETAILS	LECTURES	NO. OF LECTURES
			TO BE	
			BY	
	0.		PD	2
		System Software,		
		Resource Abstraction, US		
		strategies.		
	Types of	Multiprogramming, Batch,	PD	2
	operating	Time Sharing, Single user		
August To Mid-	systems	Multiuser. Process Control		
September		& Real Time Systems.		
	Operating		PD	10
	System	Factors in operating system		
	Organization	implementation		
		consideration; process		
		modes, methods of		
		requesting system services		
		– system calls and system		
Mid To End	Process	programs	DG	12
SEPTEMBER	Management	: System view of the process	23	
		and resources, initiating the		
		OS, processaddress space,		
		process abstraction, resource		
		hierarchy,		
November	THREAD	Thread model	PD	
		Scheduling		12
		Mechanisms, Strategy		
		emptive and pre-		
		emptive strategies		

December	Memory Management	Mapping address space to memory space, memory allocation strategies, fixed partition, variable partition, paging, virtual memory	DG	7
December	Scheduling	Scheduling Mechanisms, Strategy selection, non-pre- emptive and pre-emptive strategies.	PD	15