

ACADEMIC CALENDAR

Session: 2018-2019

DURATION	TOPIC	DETAILS	LECTURES TO BE DELEVERD BY	NO. OF LECTURES
		SEM 1 CMSGCOR01T : Problem Solving with Computer		
July to august	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
	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
Sept to oct	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
Nov to dec	Creating Python Programs	Input and Output Statements, Control statements (Looping while Loop, for Loop, Loop Control, Conditional Statement- if...else, 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

DURATION	TOPIC	<p style="text-align: center;">DETAILS</p> <p style="text-align: center;">SEM 2</p> <p style="text-align: center;">CMSGCOR02T: Database Management Systems</p>	LECTURES TO BE DELEVERD BY	NO. OF LECTURES
JAN TO MID FEB	Introduction to Database Management Systems	Characteristics of database approach, datamodels, DBMS architecture and data independence.	DG	10
FEB TO MARCH	Entity Relationship and Enhanced ER Modeling	Entity types, relationships, SQL99: Schema Definition , constraints, and object modeling.	DG	15
APRIL	Relational Data Model	Basic concepts, relational constraints, relational algebra, SQLqueries	DG	15
MAY TO JUNE	Database design	ER and EER to relational mapping, functional dependencies, normal forms up to third normal form.	DG	20