Post Graduate Government College, Sector-46, Chandigarh
Weekly Teaching Planner (2025-26) Even Semester

Class: BCA II
Department: BCA
Paper: DBMS

Week	Period		Topics to be covered
	From	To	
1	12.01.2026 to 17.01.2026		Basic Concepts: A Historical perspective, File Systems vs. DBMS, Characteristics of the Data Base Approach Data base languages & Interfaces. Design of an E-R Database Schema
2	19.01.2026 to 24.01.2026		, Abstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS
3	27.01.2026 to 31.01.2026		, Data Base Systems Concepts and Architecture: Schemas and Instances, DBMS architecture and Data Independence,
4	2.02.2026 to 7.02.2026		, DBMS functions and component modules, Entity Relationship Model:
5	9.02.2026 to 14.02.2026		Entity Types, Entity Sets, Attributes & Keys, Relationships, Relationship Types, Roles and Structural Constraints, Design issues, weak entity types, E- R Diagrams
6	16.02.2026 to 21.02.2026		Relational Data Model: Relational model concepts, Integrity constraints over Relations
7	23.02.2026 to 28.02.2026		Relational Algebra - Basic Operations. Conventional Data Model: An overview of Network and Hierarchical Data Models
8	2.03.2026 to 7.03.2026		Relational Data Base Design : Functional Dependencies, Decomposition
9	**9.03.2026 to 14.03.2026(Tentative MST)**		
10	16.03.2026 to 20.03.2026		properties of decomposition, Normal forms based on primary keys (1 NF, 2 NF, 3 NF and BC NF)
11	23.03.2026 to 28.03.2026		Understanding SQL-1
12	30.03.2026 to 4.04.2026		Grouping the Result of a Query, creation and deletion of Views, Managing privileges with Grant and Revoke Command, COMMIT and ROLLBACK, Functions: Character Functions, Date Functions, Group Functions
13	6.04.2026 to 11.04.2026		Understanding SQL-II
14	13.04.2026 to 18.04.2026		**REVISION**
15	20.04.2026 to 25.04.2026		PL/SQL: Introduction to PL/SQL, The Advantage of PL/SQL, PL/SQL Block Structure, PL/SQL Architecture, Fundamentals of PL/SQL, PL/SQL Data Types, Variables and Constants, Scope and Visibility of a Variable

Signature of the Subject Teacher

Post Graduate Government College, Sector-46, Chandigarh
Weekly Teaching Planner (2025-26)Even Semester

Class: BCA II
Department: BCA
Paper: Computer Organization

Week	Period		Topics to be covered
	From	To	
1	12.01.2026 to 17.01.2026		Number System and its conversion: Binary, Octal, Decimal, Hexadecimal; Binary Arithmetic: addition, subtraction, multiplication, division
2	19.01.2026 to 24.01.2026		8 Bit Signed Arithmetic: signed magnitude, 1's and 2's complement method; Information Representation: fixed and floating point representation
3	27.01.2026 to 31.01.2026		Computer codes: types of codes, BCD, Excess-3, Gray Code,
4	2.02.2026 to 7.02.2026		alphanumeric codes – ASCII, EBCDIC, Error detecting and correcting codes- parity, block parity, checksum, CRC and hamming codes.
5	9.02.2026 to 14.02.2026		Logic gates and their characteristics: fan in/ fan out, propagation delay, power dissipation, noise margin
6	16.02.2026 to 21.02.2026		IC logic families; Basic Boolean Algebra: Boolean laws, duality principle, Demorgan theorem, minterm and maxterms
7	23.02.2026 to 28.02.2026		standard form, conversion to canonical form, simplification of circuit design by solving boolean expressions and Karnaugh map
8	2.03.2026 to 7.03.2026		Universal Gates: conversion of circuits in terms of NAND or NOR only.
9	**9.03.2026 to 14.03.2026(Tentative MST)**		
10	16.03.2026 to 20.03.2026		Combinational Circuit Design – Adders: Half adder, Full adder, Serial & n bit Parallel Adder
11	23.03.2026 to 28.03.2026		FA using two HAs; Subtractors: Half and Full Subtractor (n bit FS by 1's and 2's Complement);
12	30.03.2026 to 4.04.2026		; Code Convertors : Decoder and Encoder ; Chip Cascading : 4x16, 5x32
13	6.04.2026 to 11.04.2026		decoder using 2x4 and 3x8 decoders, Multiplexer, Demultiplexer and their applications
14	13.04.2026 to 18.04.2026		Sequential Circuit Design – Flip Flops : Bistable circuit, SR FF, edge triggered with preset & clear, D Type FF, propagation delay, setup & hold time, JK FF
15	20.04.2026 to 25.04.2026		Asynchronous n bit counter, Up Down counter, Synchronous counter, applications and comparison

Signature of the Subject Teacher