GOVT. COLLEGE FOR GIRLS PADHA(KARNAL)

LESSON PLAN FOR 6th SEM

NAME OF TEACHER- Ms. Deepika

CLASS-B.A. with CS

SUB.- Relational Data Base Management System

WEEKS	TOPICS COVERED
WEEK 1	Relational Model Concepts, Codd's Rules for Relational Model, Hierarchical Data Model– Introduction, Features, Components, Example,
WEEK 2	Network Data Model– Introduction, Features, Components.
WEEK 3	Differences between Hierarchical Data Model and Network Data Model Comparison of Relational Data Model with Hierarchical Data Model.
WEEK 4	Network Data Model Relational Algebra:-Selection and Projection, Set Operation, Join and Division.
WEEK 5	Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.
WEEK 6	Functional Dependencies and Normalization -- Purpose, Data Redundancy, Update Anomalies, Partial/Fully Functional Dependencies.
WEEK 7	Transitive Functional Dependencies, Characteristics of Functional Dependencies.
WEEK 8	TEST-1
WEEK 9	Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF).
WEEK 10	SQL: Data Definition and data types, Create Table, Insert Data, Viewing Data, Filtering Table Data, Sorting data
WEEK 11	Creating Table from a Table, Destroy table, Update, View, Delete, Join.
WEEK 12	Concatenating data from Table Specifying Constraints in SQL.
WEEK 13	Primary Key, Foreign Key, Unique Key, Check Constraint, Using Functions.
WEEK 14	PL/SQL-Introduction, Advantages of PL/SQL.
WEEK 15	The Generic PL/SQL Block: PL/SQL Execution Environment; PL/SQL Character Set and Data Types, Declaration and Assignment of Variables.
WEEK 16	Control Structure in PL/SQL: Conditional Control, Iterative Control, Sequential Control.
WEEK 17	REVISION.

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LESSON PLAN FOR 6th SEM

NAME OF TEACHER- Ms. Deepika

CLASS-B.A. with CS

SUB.- Computer Networks

WEEKS	TOPICS COVERED
WEEK 1	Introduction to Data Communication and Computer Networks; Uses of Computer Networks; Types of Computer Networks and their Topologies.
WEEK 2	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges.
WEEK 3	Switches, Routers, Gateways; Network Software: Network Design issues and Protocols.
WEEK 4	Connection-Oriented and Connectionless Services; OSI Reference Model; TCP/IP Model.
WEEK 5	Analog and Digital Communications Concepts: Analog and Digital data and signals.
WEEK 6	Bandwidth and Data Rate, Capacity, Baud Rate; Guided and Wireless Transmission Media.
WEEK 7	Communication Satellites; Switching and Multiplexing; Modems and modulation techniques.
WEEK 8	TEST-1
WEEK 9	Data Link Layer Design issues; Error Detection and Correction methods; Sliding Window Protocols: One-bit.
WEEK 10	Go Back N and Selective Repeat; Media Access Control: ALOHA, Slotted ALOHA, CSMA, Collision free protocols.
WEEK 11	Introduction to LAN technologies: Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet.
WEEK 12	Token Ring; Introduction to Wireless LANs and Bluetooth.
WEEK 13	Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing; Link State Routing, Hierarchical Routing.
WEEK 14	Congestion Control; Traffic shaping; Choke packets; Load shedding.
WEEK 15	Application Layer: Introduction to DNS, E-Mail and WWW services.
WEEK 16	Network Security Issues: Security attacks; Encryption methods; Firewalls; Digital Signatures.
WEEK 17	REVISION.