V V SANGHA'S
Smt. ASM College Gandhinagar Ballari
Department of Computer Science ,
LESSON PLAN – 2024-25[NEP]
IV Semester - Database Management System Name : G.Sreevani

Month	Hours	Syllabus to be covered
Jan-31	5	Introduction: Purpose of Database Systems, View of Data, Database Languages, Database Design.
Feb-10	5	Data Storage and Querying, Transaction Management, Database Architecture, Database Users and Administrators.
	5	Introduction to the Relational Model: Structure of Relational Databases, Database Schema.
	5	Keys, Schema Diagrams, Relational Query Languages, Relational Operations.
March-04	6	Introduction to SQL: SQL Data Definition, Basic Structure of SQL Queries, Basic Operations- Set Operations, Null Values, Aggregate Functions, Nested Subqueries, Modification of the Database
	6	Join Expressions, Views, Transactions, Integrity Constraints, SQL Data Types and Schemas, Functions and Procedures, Triggers.
April-02	4	Database Design and the E-R Model: Overview of the Design Process, The Entity-Relationship Model, Constraints, Removing Redundant Attributes in Entity Sets.
	4	Entity-Relationship Diagrams, Reduction to Relational Schemas, Entity-Relationship Design Issues, Extended E-R Features.
	6	Relational Database Design: Features of Good Relational Designs, Atomic Domains and First Normal Form, Decomposition Using Functional Dependencies, Multivalued Dependencies, More Normal Forms-2NF, 3NF,refinement.
	6	BCNF, and 4NF, Database-Design Process, Modeling Temporal Data. Data Storage: Magnetic Disk and Flash Storage, RAID, File Organization, Organization of Records in Files.

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LESSON PLAN – 2024-25[NEP]
VI- Semester :- Data Communications & Computer Networks Smt. G. Sreevani

Month	Hours	Syllabus to be covered
Feb-01	8	Introduction: Data Communications, Networks, the internet, protocols and standards, network models – OSI model, TCP/IP protocol suite, addressing.
Feb -18	5	Data and Signals: Periodic analog signals, digital signals, transmission impairment, data rate limits, performance. .
	5	Digital transmission: Digital to digital conversion, analog-to-digital conversion, transmission modes
	5	Physical Layer and Media: Analog transmission: Digital-to-analog conversion, analog-to-analog conversion.
March -12	5	Multiplexing and Spread spectrum. Transmission media – Guided media and unguided media.
	6	Switching: Circuit-switched networks, datagram networks, virtual-circuit networks, structure of a switch. Telephone networks, dialup modems, digital subscriber line, cable-tv networks
April-06	6	Detection and Correction: Errors, redundancy, detection versus correction, block coding, linear block codes, cyclic codes, checksum.
	4	Data Link Control: Framing, flow and error control, noiseless and noisy channels, HDLC, point-to-point control.
	4	Multiple Access: Random access ALOHA, controlled access, channelization.
	4	Wired LANs-Ethernet, Wireless LANs. Connecting LANs, Backbone Networks, and Virtual LANs

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