**Lesson Plan**

**Name of Professor: Karamjit kaur**

**Subject code and Name:** Bsc 6th sem (paper-), RELATIONAL DATABASE MANAGEMENT SYSTEM

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| **Month** | **Topics covered** |
| **01/01/2024**  **To**  **01 /02/2024** | UNIT – I  Data models,Relational Model Concepts, Codd's Rules for Relational Model, Relational Algebra:-Selection and Projection, Set Operation, Renaming, Join and Division, Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus. |
| **02/02/2024**  **To**  **01/03/2024** | UNIT – II  Functional Dependencies and Normalization:-Purpose, Data Redundancy and Update Anomalies, Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies, Characteristics of Functional Dependencies, Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF). |
| **02/03/2024**  **To**  **05/04/2024** | UNIT – III  SQL: Data Definition and data types, SQL Operators, Specifying Constraints in SQL, Basic DDL, DML and DCL commands in SQL, Simple Queries, Nested Queries, Tables, Views, Indexes, Aggregate Functions, Clauses |
| **05/04/2024**  **To**  **24/04/2024** | UNIT – IV  PL/SQL architecture, PL/SQL and SQL\*Plus, PL/SQL Basics, Advantages of PL/SQL, The Generic PL/SQL Block: PL/SQL Execution Environment, PL/SQL Character set and Data Types, Control Structure in PL/SQL, Cursors in PL/SQL, Triggers in PL/SQL, Programming using PL/SQL. |

**Lesson Plan**

**Name of Professor: Karmjit kaur**

**Subject code and Name:** B23 SEC – 201, Cloud Computing

Skills

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| **Month** | **Topics covered** |
| **12/02/2024**  **To**  **04/03/2024** | UNIT – I  Basic Concepts of Cloud Computing Computer Network Basics.  Concepts of Distributed Systems. Concepts of Cloud Computing and  its Necessity. Cloud Service Providers in use and their Significance. |
| **04/03/2024**  **To**  **18/03/2024** | UNIT – II  Cloud Infrastructure Cloud Pros and Cons. Cloud Delivery Models.  Cloud Deployment Models. |
| **19/03/2024**  **To**  **02/04/2024** | UNIT – III  Cloud Storage Management Concept of Virtualization and Load  Balancing. Overview on Virtualization used for Enterprise Solutions.  Key Challenges in managing Information. Identifying the problems  of scale and management in big data.. |
| **02/04/2024**  **To**  **24/04/2024** | UNIT – IV  Building Cloud Networks Designing and Implementing a Data  Center-Based Cloud Installing Open Source Cloud service. Amazon  Web Services (AWS). Google Cloud Platform.. |

**Lesson Plan**

**Name of Asst Professor**: **Ms Karmjit Kaur**

**Subject code and Subject name**: **BSC 4TH SEM( OPERATING SYSTEM)**

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| **Month** | **Topics Covered** |
| **03/01/2024**  **To**  **07 /02/2024** | **UNIT – I**  Operating System: Definition, Characteristics, Components, Functions, Examples; Types of Operating System: Single User/Multi User, Classification of Operating System: Batch, Multiprogrammed, Timesharing, Multiprocessing, Parallel, Distributed, Real Time; System Calls and System Programs: Process Control, File Manipulation, Device Manipulation, Information Maintenance, Communications |
| **08/02/2024**  **To 06/03/2024** | **UNIT – II**  Process Management: Process concept, Process states and Process Control Block; Process Scheduling: Scheduling Queues, Schedulers, Context Switch; Operation on Processes: Process Creation, Process Termination; Cooperating Processes, Introduction to Threads, Inter-process Communication; CPU Scheduling: Basic Concepts, Scheduling Criteria, Scheduling Algorithms: FCFS, SJF, Priority, Round-Robin, Multilevel Queue, Multilevel Feedback Queue Scheduling |
| **07/03/2024**  **To**  **03/04/2024** | **UNIT – III**  Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery Memory Management: Introduction, Swapping, Contiguous Allocation: Single-Partition/Multiple Partition Allocation, External/Internal Fragmentation |
| **04/04/2024**  **To**  **24/04/2024** | **UNIT – III(CONTINUE..)**  Paging: Basic Method, Hardware, Implementation of Page table; Segmentation: Basic Method, Hardware, Implementation of Segment Table, Advantages/Disadvantages of Paging/Segmentation  **UNIT – IV**  Virtual Memory: Introduction, Demand Paging, Page Replacement, Page Replacement Algorithms: FIFO, Optimal, LRU, Counting |
| **07/11/2023**  **To**  **30/11/2023** | **UNIT – IV**  Thrashing and its cause; File Management: File Concepts, File Attributes, File Operations, File Types, File Access/Allocation Methods, File Protection, File Recovery  DISC SCHEDULING,DISC MNGMT |