CLUSTER UNIVERSITY SRINAGAR COMPUTER APPLICATIONS B.G. 3rd SEMESTER

Database Management Systems

Unit-I

Introduction to DBMS: Data, Database, Definition & Characteristics of DBMS; Database System Vs File System.

Advantages & Disadvantages of DBMS; Database Users

Unit-II

DBMS Architecture and Types:

Data models, Schemas and Instances. 3-Schema Architecture of DBMS; Data independence;

Database Languages and Interfaces; Introduction to Types of DBMS.

Unit-III

Data Modeling: E-R Model: Concept, ER Modeling Notations: Entity set, attributes, Relationships and keys.

Relational Data Model; Concept and definitions of RDBMS,

Relational model Constraints (Entity Integrity, Referential Integrity, Key Constraints, Domain Constraints),

Unit-IV

Relational Database Design: Introduction to Normalization; Functional dependencies; Transitive dependencies, Normal Forms: 1NF, 2NF & 3NF.

Introduction to SQL

SQL Data Types.

Basics of SQL: DDL,DML,DCL,

DDL Commands: create, alter, drop, truncate select, insert, delete and update

References:

1. Elmasri, Navathe "Fundamentals of Database Systems", Pearson Education.

2. Korth, Silbebschatz, Sudarshan, "Database System Concepts", TMH.

of april on.

Con E. Jayon