

IAT1 Portion
Subject: DBMS Sem:III

Module I:

Introduction, Characteristics of Databases, File system v/s Database system, Data abstraction and Data Independence, DBMS system architecture, Database Administrator (DBA), Role of DBA

ModuleII:

Conceptual Modeling of a database,
The Entity- Relationship (ER) Model,
Entity Type, Entity Sets, Attributes and Keys,
Relationship Types,
Relationship Sets, Weak entity Types ,Extended
Entity-Relationship (EER) Model.
Generalization,
Specialization and Aggregation.

Module III:

Introduction to Relational Model, Relational
Model Constraints and
Relational Database Schemas, Concept of Keys: Primary
Key, Secondary key, Foreign Key, Mapping the ER and EER
Model to the Relational Model, Introduction to Relational
Algebra, Relational Algebra expressions for Unary
Relational Operations,
● Set Theory operations,
● Binary Relational operation Relational Algebra
Queries