BS (4 Years) for Affiliated Colleges



Code Su		Sul	bject Title	Cr. Hrs	Semester
COMP-103		Со	mputer-II	3	П
Year			Discipline		
1			Statistics-II, Islamic Education		

1. Introduction:

- a. Data, Processing & Information
- b. Data Item/Entity, Record, File, Metadata, Database
- c. Files and its typesd. Traditional File Processing Systems and its disadvantages2. Database

- a. Database Systems
- b. Database Objectives
- c. Database Management Systems
- d. Components of the DBMS
- e. Types of DBMS
- f. Database Applications
- g. Advantages of Database System
- h. Disadvantages of Database System

3. Database Development

- a. Database development with information system
- b. Database development process
- c. 3-Schema Architecture

4. Data Associations

- a. Entity, Attribute & Associations
- b. Entity, Attribute & Associationsc. Types of Associations
- d. Entity-Relation Model

5. Relation & its Characteristics

- a. Relation
- b. Properties of Relations
- c. Key and its types

6. Normalization

- a. Normalization and its steps
- b. Types of Normalization
- c. Effects for Normalization

7. Database Design

- a. Logical Database Designb. Physical Database
- c. Database Administration