

**SRM UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF BIOINFORMATICS**

BI0204- INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS

LESSON PLAN

Semester: IV
Sub Code: BI0204

Course: Introduction To Database Management Systems
Staff Handling: Mrs. M. Thenmozhi
(Information Technology Department)

S.no	Topic	Hours required	Text book
1	Introduction: Comparison of File and DBMS-pros and cons,Architecture	4	T1
2	DB languages, Basic terminologies of ER	2	T1
3	Data model ER model	3	T1,T2
4	Database Design Issues	3	T1
5	CASE STUDY : ER	3	T1
7	SQL- Basics, Commands	3	T1,R2
6	Continuation SQL	3	T1,R2
7	Normalization techniques 1NF,2NF,3NF,BCNF	5	T1,T2
8	Applying Normalization to sample applications	4	T1,T2
9	Applications of DB in Bio informatics field	3	Internet Reference
10	Sequencing of Database	3	Internet Reference
11	GenBank	2	Internet Reference
12	SwissProt	2	Internet Reference
13	Derived Databases	3	Internet Reference
14	Structure Databases	2	Internet Reference
15	Validation Databases	3	Internet Reference

TEXT BOOKS

1. Abraham Silberschatz, Henry F. Korth, S. Sudarshan, *Database System Concepts*, McGraw-Hill, 4th Edition, 2002
2. Raghuram Ramakrishnan, Johannes Gehrke, *Database Management System*, McGraw Hill, 3rd Edition 2003

REFERENCE BOOKS

1. Elmasri&Navathe, *Fundamentals of Database System*, Addison-Wesley Publishing, 3rd Edition, 2000
2. Date C.J, *An Introduction to Database*, Addison-Wesley Pub Co, 7th Edition, 2001
3. Jeffrey D. Ullman, Jennifer Widom, *A First Course in Database System*, Prentice Hall, AWL 1st Edition, 2001
4. Peter Rob, Carlos Coronel, *Database Systems - Design, Implementation, and Management*, 4th Edition, Thomson Learning, 2001

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