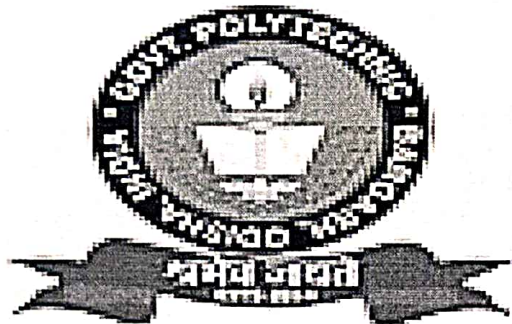# DATABASE MANAGEMENT SYSTEMS

## LESSON PLAN



**4TH SEM, CSE**

**PREPARED BY**

**Mrs. Banani Mohanty**

# DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

# GOVERNMENT POLYTECHNIC BARGARH

| LECTURE | TOPICS TO BE COVERED | TEACHING MEHOD |
|---------|----------------------|----------------|
| 1 | BASIC CONCPETS OF DBMS: Purpose of database Systems | PPT |
| 2 | Explain Data abstraction | PPT |
| 3 | Database users | PPT |
| 4 | Data definition language | PPT |
| 5 | Data Dictionary | PPT |
| 6 | DATA MODELS: Data independence | PPT |
| 7 | Entity relationship models, Entity sets and Relationship sets | PPT |
| 8 | Explain Attributes | PPT |
| 9 | Mapping constraints | PPT |
| 10 | E-R Diagram | PPT |
| 11 | EXAMPLES OF ER DIAGRAM | |
| 12 | EXAMPLES OF ER DIAGRAM | |
| 13 | Relational model | PPT |
| 14 | Hierarchical model ,Network model | PPT |
| 15 | REVISION | PPT |
| 16 | RELATIONAL DATABASE: Relational algebra | CHALK & BOARD |
| 17 | Different operators: select OPERATOR | CHALK & BOARD |
| 18 | Project OPERATOR | CHALK & BOARD |
| 19 | Join OPERATOR , simple Examples | CHALK & BOARD |
| 20 | Different operators select, project, join WITH simple Examples | CHALK & BOARD |
| 21 | REVISION | PPT |
| 22 | NORMALIZATION IN RELATIONAL SYSTEM: Functional Dependencies | PPT |
| 23 | Lossless join | PPT |
| 24 | Importance of normalization | PPT |
| 25 | First normal forms | PPT |
| 26 | Second normal forms | PPT |
| 27 | Third normal forms | PPT |
| 28 | Explain BCNF | PPT |
| 29 | REVISION | CHALK & BOARD |
| 30 | STRUCTURED QUERY LANGUAGE: Elementary idea of Query language | CHALK & BOARD |
| 31 | Queries in SQL | CHALK & BOARD |
| 32 | Queries in SQL | CHALK & BOARD |
| 33 | Simple queries to create, update, insert in SQL | CHALK & BOARD |
| 34 | Simple queries to create, update, insert in SQL | CHALK & BOARD |
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| 39 | Simple queries to create, update, insert in SQL | CHALK & BOARD |
| 40 | REVISION | CHALK & BOARD |
| 41 | TRANSACTION PROCESSING CONCEPTS Idea about transaction processing | CHALK & BOARD PPT |
| 42 | Transaction & system concept | |
| 44 | Desirable properties of transaction | PPT |
| 45 | Schedules and recoverability | PPT |
| 46 | REVISION | PPT |
| 47 | CONCURRENCY CONTROL CONCEPTS Basic concepts | PPT PPT |

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|---|---|---|
| | | PPT |
| 48 | Locks, Live Lock, Dead Lock, | PPT |
| 49 | Serializability (only fundamentals) | PPT |
| 50 | REVISION | PPT |
| 51 | SECURITY AND INTEGRITY Authorization and views | PPT |
| 52 | Security constraints | PPT |
| 53 | Integrity Constraints | PPT |
| 54 | Discuss Encryption | PPT |
| 55 | REVISION | CHALK & BOARD |
| 56 | PREVIOUS YEAR QUESTIONS DISCUSSION | CHALK & BOARD |
| 57 | PREVIOUS YEAR QUESTIONS DISCUSSION | CHALK & BOARD |
| 58 | PREVIOUS YEAR QUESTIONS DISCUSSION | CHALK & BOARD |
| 59 | PREVIOUS YEAR QUESTIONS DISCUSSION | CHALK & BOARD |
| 60 | PREVIOUS YEAR QUESTIONS DISCUSSION | |

LECTURER

HOD