BHADRAK ENGINEERING SCHOOL & TECHNOLOGY (BEST), ASURALI, BHADRAK

**DATABASE MANAGEMENT SYSTEM (Th. 04)**

**CHAPTER WISE DISTRIBUTION OF PERIODS & MARKS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chapter No.** | **Topics** | **Periods as per Syllabus** | **Required period** | **Expected Marks** |
| 1 | BASIC CONCPETS OF DBMS | 05 | 05 | 10 |
| 2 | DATA MODELS | 08 | 09 | 15 |
| 3 | RELATIONAL DATABASE | 06 | 06 | 15 |
| 4 | NORMALIZATION IN RELATIONAL SYSTEM | 08 | 08 | 20 |
| 5 | STRUCTURED QUERY LANGUAGE | 09 | 09 | 10 |
| 6 | TRANSACTION PROCESSING CONCEPTS | 08 | 07 | 10 |
| 7 | CONCURRENCY CONTROL CONCEPTS | 08 | 08 | 10 |
| 8 | SECURITY AND INTEGRITY | 08 | 08 | 10 |
|  | Total | 60 | 60 | 100 |

**Sign of Lect. Sign of HOD. Sign of AIC Sign of Vice Principal**

LESSON PLAN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Discipline:**  Computer science & Engg. | | **Semester:**  forth (4th ) | **Name Of The Faculty:**  Er.Jyotsnamayee Jena | |
| **Subject:** Database Management System | | **No of days/ week class allotted:**  Six(6) | **Semester from date:**  **to Date:**  **No of weeks: 15** | |
| **WEEK** | | **CLASS DAY** | **THEORY TOPICS** | |
| 1st | | 1st | **Chapter No.- 01(Basic Concpets Of DBMS)**  Purpose of database Systems | |
| 2nd | Cont.. | |
| 3rd | Explain Data abstraction | |
| 4th | Database users | |
| 5th | Data definition language  Data Dictionary | |
| 6th | ***Review Class*** | |
| 2nd | | 1st | **Chapter No.- 02 (Data Models)**  Data independence | |
| 2nd | Entity relationship models | |
| 3rd | Entity sets and Relationship sets | |
| 4th | Explain Attributes | |
| 5th | Mapping constraints | |
| 6th | E-R Diagram | |
| 3rd | | 1st | Relational model | |
| 2nd | Hierarchical model | |
| 3rd | Network model | |
| 4th | ***Review Class*** | |
| 5th | **Chapter No.- 03 (Relational Database)**  Relational algebra | |
| 6th | Different operators select | |
| 4th | | 1st | project | |
| 2nd | join | |
| 3rd | Continue | |
| 4th | simple Examples | |
| 5th | ***Review Class*** | |
| 6th | ***Monthly Test- 1*** | |
| 5th | | 1st | **Chapter No.- 04 (Normalization In Relational System)**  Functional Dependencies | |
| 2nd | Lossless join | |
| 3rd | Importance of normalization | |
| 4th | Compare First ,second and third normal forms | |
| 5th | Cont. | |
| 6th | Cont. | |
| 6th | | 1st | Explain BCNF | |
| 2nd | Cont. | |
| 3rd | ***Review Class*** | |
|  | 4th | | **Chapter No.- 05 (Structured Query Language)**  Elementary idea of Query language | |
| 5th | | Queries in SQL | |
| 6th | | Example | |
| 7th | 1st | | Simple queries to create | |
| 2nd | | Example | |
| 3rd | | Update | |
| 4th | | Example | |
| 5th | | ***Monthly Test- 2*** | |
| 6th | | Insert in SQL | |
| 8th | 1st | | Example | |
| 2nd | | ***Review Class*** | |
| 3rd | | **Chapter No.- 06 (Transaction Processing Concepts**  Idea about transaction processing | |
| 4th | | Transaction & system concept | |
| 5th | | Cont.. | |
| 6th | | Desirable properties of transaction | |
| 9th | 1st | | Schedules | |
| 2nd | | Example | |
| 3rd | | recoverability | |
| 4th | | ***Review Class*** | |
| 5th | | ***Monthly Test- 3*** | |
| 6th | | **Chapter No.- 07 (Concurrency Control Concepts)**  Basic concepts | |
| 10th | 1st | | Locks | |
| 2nd | | Live Lock, | |
| 3rd | | Example | |
| 4th | | Dead Lock | |
| 5th | | Example | |
| 6th | | Serializability (Only fundamentals) | |
| 11th | 1st | | Cont. | |
| 2nd | | ***Review Class*** | |
| 3rd | | ***Monthly test-4*** | |
| 4th | | **Chapter No.- 08(security & integrity)**  Authorization and views | |
| 5th | | Cont. | |
| 6th | | Security constraints | |
| 12th | 1st | | Cont. | |
| 2nd | | Integrity Constraints | |
| 3rd | | Cont. | |
| 4th | | Discuss Encryption | |
| 5th | | Cont. | |
| 6th | | ***Review Class*** | |
| 13th | 1st | | Review Class |
| 2nd | | Review Class |
| 3rd | | Review Class |
| 4th | | Review Class |
| 5th | | Review Class |
| 14th | 1st | | Previous Year Question Answer Discussion |
| 2nd | | Previous Year Question Answer Discussion |
| 3rd | | Previous Year Question Answer Discussion |
| 4th | | Previous Year Question Answer Discussion |
| 5th | | Previous Year Question Answer Discussion |
| 6th | | Previous Year Question Answer Discussion |
| 15th | 1st | | Previous Year Question Answer Discussion |
| 2nd | | Previous Year Question Answer Discussion |
| 3rd | | Previous Year Question Answer Discussion |
| 4th | | Previous Year Question Answer Discussion |
| 5th | | Previous Year Question Answer Discussion |
| 6th | | Previous Year Question Answer Discussion |

*Chapters covered up to IA****: 1, 2,3 & 4***