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 languageData 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***