

Academic Lesson Plan of Summer 2024

| Discipline: Information Technology | Semester : 4th | Name of the Teaching faculty: Archana Tripathy |
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| Subject : | No. of Days/per week class allotted : 04 | Semester from date : 16/01/2024 to 26/04/2024 |
| Data Base Management System | Class Day | No. of weeks : 15 |
| | | Theory / Practical Topics |
| January 3rd | 17-01-2024 | BASIC CONCPETS OF DBMS |
| | 18-01-2024 | Purpose of database Systems |
| | 20-01-2024 | Explain Data abstraction |
| January 4th | 22-01-2024 | Database users |
| | 24-01-2024 | Data definition language |
| | 25-01-2024 | Continue |
| | 27-01-2024 | Data Dictionary |
| January 5th | 29-01-2024 | DATA MODELS |
| | 31-01-2024 | Continue |
| February 1st | 01-02-2024 | Continue |
| | 03-02-2024 | Entity relationship models |
| February 2nd | 05-02-2024 | Continue |
| | 07-02-2024 | Data independence |
| | 08-02-2024 | Entity sets and Relationship sets |
| | 10-02-2024 | Explain Attributes |
| February 3rd | 12-02-2024 | Mapping constraints |
| | 15-02-2024 | E-R Diagram |
| | 17-02-2024 | Relational model |
| February 4th | 19-02-2024 | Continue |
| | 21-02-2024 | Hierarchical model |
| | 22-02-2024 | Continue |
| | 24-02-2024 | Network model |
| February 5th | 26-02-2024 | Continue |
| | 28-02-2024 | REVISION |
| March 1st | 29-02-2024 | RELATIONAL DATABASE, Relational algebra |
| | 01-03-2024 | Different operators select, project, join , simple Examples |
| March 2nd | 04-03-2024 | different types of join , simple Examples |
| | 06-03-2024 | REVISION |
| | 07-03-2024 | Normalization in Relational System |
| | 09-03-2024 | Different Types of Normalization 1NF,2NF |
| March 3rd | 11-03-2024 | 3NF,4NF |
| | 13-03-2024 | Functional Dependencies |
| | 14-03-2024 | Continue |
| | 16-03-2024 | Lossless join, Compare First second and third normal forms |
| March 4th | 18-03-2024 | STRUCTURED QUERY LANGUAGE |
| | 20-03-2024 | Elementary idea of Query language |
| | 21-03-2024 | Queries in SQL |
| | 23-03-2024 | Queries in SQLwith examples |
| March 5th | 27-03-2024 | Simple queries to create, update, insert in SQL |
| | 28-03-2024 | REVISION |
| | 30-03-2024 | TRANSACTION PROCESSING CONCEPTS, Idea about transaction processing |
| April 1st | 01-02-2024 | Transaction & system concept |
| | 02-04-2024 | Desirable properties of transaction |
| | 04-04-2024 | Schedules and recoverability |
| | 06-04-2024 | REVISION |
| April 2nd | 08-04-2024 | CONCURRENCY CONTROL CONCEPTS, Basic concepts |
| | 10-04-2024 | Locks, Live Lock, Dead Lock, |
| | 13-04-2024 | Continue |
| April 3rd | 15-04-2024 | Serializability(only fundamentals) |
| | 18-04-2024 | REVISION |
| | 20-04-2024 | SECURITY AND INTEGRITY , Authorization and views |
| April 4th | 22-04-2024 | Security constraints |
| | 24-04-2024 | Integrity Constraints 8.4 Discuss Encryption |
| | 25-04-2024 | REVISION of all topics with Important questionf for Semester exam. |

Archana Tripathy
16-1-24

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