

**Course Name: Database Management System****Instructor: Krishna T**

| <b>CLASS</b> | <b>CHAPTER</b>          | <b>TOPIC</b>                                     | <b>AUDIENCE</b>                              |
|--------------|-------------------------|--|--|
| Class 1      | ER Diagrams             | Entity, Attributes                               | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 2      | ER Diagrams             | ER Components, Relationships                     | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 3      | ER Diagrams             | Weak Entity, Mapping<br>Cardinality              | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 4      | ER Diagrams             | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 5      | Relational Model        | Relation, ER to Relation                         | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 6      | Relational Model        | Keys- PK, CK, SK                                 | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 7      | Relational Model        | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 8      | Functional Dependencies | Foreign Key                                      | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 9      | Functional Dependencies | Trivial FD, Non Trivial FD                       | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 10     | Functional Dependencies | Attribute Closure                                | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 11     | Functional Dependencies | Lossless Decomposition,<br>Dependency Preserving | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 12     | Functional Dependencies | Normalization                                    | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 13     | Functional Dependencies | Normalization                                    | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 14     | Functional Dependencies | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 15     | Functional Dependencies | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 16     | Relational Algebra      | Selection, Projection                            | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 17     | Relational Algebra      | Set Operations                                   | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 18     | Relational Algebra      | Joins  | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 19     | Relational Algebra      | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 20     | SQL                     | Basic Queries                                    | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 21     | SQL                     | Aggregate Functions                              | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 22     | SQL                     | Nested Queries, Group By                         | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 23     | SQL                     | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |
| Class 24     | SQL                     | GATE Practice Questions                          | <b><i>only for GATE aspirants</i></b>        |

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| Class 25 | Transactions & CC | Schedule                 | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 26 | Transactions & CC | Conflict Serializability | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 27 | Transactions & CC | Locking Protocols        | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 28 | Transactions & CC | GATE Practice Questions  | <b>only for GATE aspirants</b>               |
| Class 29 | Indexing          | Indexing Classification  | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 30 | Indexing          | B Tree                   | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 31 | Indexing          | B+ Tree                  | <i>Btech/B.E students<br/>GATE aspirants</i> |
| Class 32 | Indexing          | GATE Practice Questions  | <b>only for GATE aspirants</b>               |

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