DBMS IMPORTANT TOPICS

Module 1:

- Characteristics of DBMS
- Structured, semi-structured & unstructured data
- 3 schema architecture
- Attributes and its types
- Strong & Week entity

Module 2:

- E-R diagram to table
- Relational algebra – operations
- DDL Commands

Module 3:

- DML Commands
- Nested Queries
- Aggregation, grouping, views,
- Problem of bfr
- Indexing & types of indexing
- B trees & B+ trees
- Hashing & typs of hashing

Module 4:

- Normalization
- Lossy & Lossless decomposition (algorithms)
- Functional dependency

Module 5:

- Transaction – ACID properties – states
- System log
- Serial schedule – concurrent – serializable
- Recoverable – cascadeless schedule
- Locking – 2phase locking
- Log based recovery and deferred DB modification
- NO – SQL ; main characteristics of key value & document DB
- Characteristics of column DB & graph DB