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RGPV B.Tech – CSE 5th Semester Syllabus

CS-504-C: Introduction to Database Management System

Unit I: DBMS Concepts and Architecture

- Database vs traditional file systems
- Advantages of DBMS, data models, schemas, instances
- Data independence, DBMS languages and interfaces
- Functions of DBA and designer

Unit II: Entity Relationship Model

- Entities, attributes, entity types
- Generalization, aggregation, specialization
- Transforming ER diagrams into tables
- Relational, network, and object-oriented models

Unit III: Relational Model and Algebra

- Relational model concepts, constraints
- Relational algebra: select, project, join, union, intersection
- Tuple relational calculus

Unit IV: SQL and Normalization

SQL: DDL, DML, DCL commands

Integrity constraints, joins, subqueriesNormalization: 1NF, 2NF, 3NF, BCNFFunctional dependencies

Unit V: Transactions and Concurrency

Transaction concepts, ACID properties
Serializability, concurrency control techniques
Locking protocols, deadlock handling
Recovery techniques



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Career Shiksha – CS-504-C Syllabus Overview

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