

# NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - Database Design

Subject Co-ordinator - Dr. S. Srikanth, Prof. D. Janaki Ram

Co-ordinating Institute - IIT - Madras | IIIT - Bangalore

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Database Management System  
Lecture 2 - Conceptual Designs  
Lecture 3 - Conceptual Designs  
Lecture 4 - Relational Model  
Lecture 5 - Relational Model  
Lecture 6 - Structured Query Language - I  
Lecture 7 - Structured Query Language - II  
Lecture 8 - ER Model to Relational Mapping  
Lecture 9 - Functional Dependencies and Normal Form  
Lecture 10 - ER Model to Relational Model Mapping  
Lecture 11 - Storage Structures  
Lecture 12 - Indexing Techniques Single Level  
Lecture 13 - Indexing Techniques Multi Level  
Lecture 14 - Constraints and Triggers  
Lecture 15 - Query Processing and Optimization  
Lecture 16 - Query Processing and Optimization - II  
Lecture 17 - Query Processing and Optimization - III  
Lecture 18 - Transaction Processing Concepts  
Lecture 19 - Transaction Processing and Database Manager  
Lecture 20 - Foundation for Concurrency Control  
Lecture 21 - Concurrency Control Part - 1  
Lecture 22 - Concurrency Control Part - 2  
Lecture 23 - Concurrency Control Part - 3  
Lecture 24 - Concurrency Control Part - 4  
Lecture 25 - Distributed Transaction Models  
Lecture 26 - Basic 2-Phase and 3-phase commit protocol  
Lecture 27 - Concurrency Control for Distributed Transaction  
Lecture 28 - Introduction to Transaction Recovery  
Lecture 29 - Recovery Mechanisms - II

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

---

- Lecture 30 - Recovery Mechanisms - III
- Lecture 31 - Introduction to Data Warehousing and OLAP
- Lecture 32 - Introduction to Data Warehousing and OLAP
- Lecture 33 - Case Study
- Lecture 34 - Case Study ORACLE and Microsoft Access
- Lecture 35 - Data Mining and Knowledge Discovery
- Lecture 36 - Data Mining and Knowledge Discovery Part - II
- Lecture 37 - Object Oriented Databases
- Lecture 38 - Object Oriented Databases - II
- Lecture 39 - XML - Introductory Concepts
- Lecture 40 - XML - Advanced Concepts
- Lecture 41 - XML - Databases
- Lecture 42 - Case Study - Part One - Database Design
- Lecture 43 - Case Study - Part Two - Database Design