

### **NPTEL material available in the library**

- Introduction to Software Engineering-Challenges
- Introduction to Software Engineering
- Overview of Phases
- Overview of Phases
- Requirements Engineering / Specification
- Formal Specification
- Algebraic Specification Methods
- Systems Modeling Overview
- Process Modeling - DFD , Function Decomp
- Process Modeling - DFD, Function Decomp
- Data Modeling - ER Diagrams, Mapping
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- Production Quality Software - Introduction
- Software Design - Primary Consideration
- Design Patterns
- Class and Component Level Design
- Architectural Design
- Software Testing - I
- Software Testing - II
- Structural Programming and Some implementation
- Software Metrics and Quality
- Verification and Validation
- Case Study
- Case Study
- Software Evolution
- Agile Development

- Software Reuse CBSE
- Reuse Continued
- Introduction to Project Management
- Project Scope Management
- Project Time Management
- Estimation - I
- Estimation - II
- Project Quality Management
- Quality Management Systems - I
- Quality Management Systems
- Project Configuration Management
- Project Risk Management
- Other PM Processes

URL: <http://nptel.ac.in/courses/106101061/39>