

CSE-226 SOFTWARE ENGINEERING

Introduction to software engineering, software process & process models, Software metrics and measurements, software project management, software project planning, scheduling and tracking, cost estimation methods. Requirements analysis: Principles, complexity, methods, structured analysis, SRS Documentation. Design principles: abstraction, refinement, modularity, control hierarchy, structured partitioning, design types and methods. Software coding: coding style, coding efficiency, capability maturity model (CMM), Software quality assurance, Software testing: Software testing techniques, choice and classification of test data, verification & validation methods. Software maintenance, configuration management, system documentation, software reusability.

References:

1. An Integrated Approach to Software Engineering PankajJalote,
2. Software Engineering: A Practitioner's Approach R S. Pressman.