

Class Day	Theory Topics
1st	Defination of Software engineering Difference Between program & S.P
2nd	Needs of software engineering
3rd	Computer systems engineering
4th	Software life cycle models & TYPES
5th	
1st	Classical Water Fall Model Iterative Water Fall Model
2nd	Prototyping model Evolutionary model, spiral model
3rd	Responsibility of project manager
4th	Project planning
5th	
1st	Metrics for project size estimation (LOC & FP)
2nd	Project Estimation Techniques
3rd	Cocomo models,
4th	Scheduling
5th	

Class Day	Theory Topics
1st	Organization x Team Structure
2nd	Staffing
3rd	Risk Management
4th	Configuration Management
5th	
1st	Requirements gathering x Analysis
2nd	Software Requirements Specification
3rd	Contents of SRS
4th	Characteristics of Good SRS
5th	
1st	Organization of SRS
2nd	Techniques for representing Complexing Logic
3rd	Software design levels
4th	Coupling x Cohesion
5th	

Class Day	Theory Topics
1st	Data Flow Diagram, TYPES OF DFD
2nd	Structure charts
3rd	Designing Data Flow Diagram
4th	Structured design X Analysis
5th	
1st	Shortcomings of Data Flow Diagram
2nd	Principles of transformation of DFD to structure chart
3rd	Transform Analysis X transaction Analysis
4th	Design Review, (EXAM)
5th	
1st	Introduction of user interface & Command Line Interface
2nd	Basic of GUI
3rd	Characteristics of Good interface
4th	Basic concept of UID
5th	

Class Day	Theory Topics
1st	Types of user interfaces
2nd	Application of GUI components
3rd	User interface design activities
4th	GUI implementation tools & Golden rules
5th	
1st	Concept of software coding
2nd	Code Review, code inspections and software documentation
3rd	Introduction of software testing software validation & verification
4th	Manual vs Automated Testing
5th	Black box testing & white box testing
1st	Black box testing & white box testing
2nd	Testing levels
3rd	Testing documentation
4th	Testing vs. quality control, quality assurance & Audit
5th	

Class Day	Theory Topics
1st	Debugging approaches, guidelines
2nd	System testing alphas Beta & acceptance testing
3rd	Performance testing, Error seeding
4th	Issues associate & with testing
5th	
1st	Software Reliability, Software Failure Mechanisms
2nd	Software Reliability Metrics
3rd	Software Reliability Models
4th	Reliability growth Modeling
5th	
1st	Software Quality
2nd	ISO 9000 certification
3rd	SEI CMM, PCMM
4th	Software Quality Management System.
5th	