SOFTWARE ENGINEERING & PROJECT MANAGEMENT

A. A. PUNTAMBEKAR

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The Software Product and Software Process Software product and process characteristics, Software process models: Linear sequential model, Prototyping model, RAD model, Evolutionary process models like incremental model, Spiral model, Component assembly model, RUP and Agile processes. Software process customization and improvement, CMM, Product and process metrics. Requirement Elicitation, Analysis and Specification Functional and non-functional requirements, Requirement sources and elicitation techniques, Analysis modeling for function-oriented and object-oriented software development, Use case modeling, System and software requirement specifications, Requirement validation, Traceability. Software Design The software design process, Design concepts and principles, Software modeling and UML, Architectural design, Architectural views and styles, User interface design, Function-oriented design, SA/SD component based design, Design metrics. Software Analysis and Testing Software static and dynamic analysis, Code inspections, Software testing fundamentals, Software test process, Testing levels, Test criteria, Test case design, Test oracles, Test techniques, Black-box testing, White-box unit testing and unit testing frameworks, Integration testing, System testing and other specialized testing, Test plan, Test metrics, Testing tools, Introduction to object-oriented analysis, Design and comparison with structured software engg. Software Maintenance & Software Project Measurement Need and types of maintenance, Software Configuration Management (SCM), Software change management, Version control, Change control and reporting, Program comprehension techniques, Re-engineering, Reverse engineering, Tool support. Project management concepts, Feasibility analysis, Project and process planning, Resources allocations, Software efforts, Schedule and cost estimations, Project scheduling and tracking, Risk assessment and mitigation, Software Quality Assurance (SQA). Project plan, Project metrics.

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