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Software Project Management

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Product Description

Software Project Management

Software Project Management provides a crucial integration of core management principles with the technical expertise of software engineering. As the complexity of modern software systems grows, effective management practices are more essential than ever.

This book is meticulously designed to equip both students and professionals with the knowledge and practical tools necessary to navigate the challenges of the software development lifecycle. It guides readers through the entire process, encompassing everything from initial project planning and effort estimation to continuous monitoring, risk control, and ensuring software quality.

By mastering the methodologies and techniques presented, you will learn to manage projects that are completed on time, within budget, and to the required standards of quality. The text emphasizes that successful project execution requires a balanced approach, highlighting the vital role of teamwork, leadership, and communication alongside technical expertise. Ultimately, this is the definitive resource for anyone seeking to master the art of delivering high-quality software products.

Salient Features:

- **Project Evaluation and Strategy**: Learn to categorize, evaluate, and align projects with business goals using Project Evaluation, Programme Management, and Cost-Benefit Evaluation Techniques (like ROI and NPV).
- **Estimation Mastery**: Practical coverage of Software Effort Estimation, including the Bottom-up, Top-down approach, and Parametric models such as the industry-standard COCOMO model.

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- **Activity Planning**: Detailed guidance on Activity Planning, Project Schedules, and Network Planning models for sequencing and scheduling tasks.
- **Comprehensive Risk Management**: Explores a systematic framework for dealing with risk, covering Risk Identification, Assessment, Planning, and effective Risks and Counter Measures.
- **Monitoring and Control**: Techniques for creating a monitoring framework, Collecting Data, conducting Reviews, performing Earned Value Analysis, and managing Software Configuration.
- **Software Quality Assurance**: Defines and measures quality using models like ISO 9126, Product and Process Metrics, and introduces Process Capability Models (like CMMI).
- **People Management**: Essential strategies for Managing People in a software environment, including Organizational Behavior, Team Dynamics, and Stress Management,

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- Introduction to Software Project Management
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- Activity Planning and Risk Management
- Monitoring and Control
- Software Quality

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