Software Project Management

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Lesson #1

SPM Course Overview
Roadmap (1)

- Greensheet
  - Textbooks
  - Course Overview & Objectives
  - Course Requirements
    - Individual Assignments
    - Individual Essays
    - Exams
    - Extra Assignments

- Grading
Roadmap (2)

- Course Calendars
  - Weekly Schedule
  - Voluntary Meetings
  - Due Dates
- General Information
- Policies
- Submission Guidelines
Roadmap (3)

- Pattern-Oriented SPM
- Employment Pattern
- SPM Outline
- Foundation Outline
- Software Project Management
- PM History in a Nutshell
Lesson #1: Learning Objectives

- Understand how to make this course “learning with enjoyment”
- Understand the growing importance of software project management
- Learning SPM based on PM Patterns
- Exploring the Challenges of SPM
Textbooks

- **Recommended texts**
  - “Rapid Development”, Steve McConnell
  - “Information Technology Project Management”, Kathy Schwalbe

- **These provide two very different viewpoints**
  - In-the-trenches vs. PMI textbook perspective

- **Recommended reading**
  - “Quality Software Project Management”, D. Shafer
  - “Software Project Survival Guide”, Steve McConnell
  - “Peopleware”, T. DeMarco and T. Lister
SPM Course Outline (1)

- Skill & Competencies for Effective SPM
- What is a Project?
- What is S/W Project Management (SPM)?
- Planning the Project
- WBS, Estimation & Scheduling
- Risk and Change Management
SPM Course Outline (2)

- Software Process Improvement
- Development Management
- Project Control
- Integration & Testing
- Transition to a New Technology
- Technology Transfer
Foundation Course Outline

- Traditional Software Patterns & Pattern Languages
- Software Methodologies
- Software Process Improvement
- Software Process Patterns
- Software Development AntiPatterns
- Software Architecture AntiPatterns
- Software Project Management AntiPatterns
Software Project Management

Management

Project Management

Software Project Management
Project Management History

- Birth of modern PM: Manhattan Project (the bomb)
- 1970’s: military, defense, construction industry were using PM software
- 1990’s: large shift to PM-based models
  - 1985: TQM
  - 1990-93: Re-engineering, self-directed teams
  - 1996-99: Risk mgmt, project offices
  - 2000: global projects
Discussion Questions

Questions?