

Software Project Management Course - overview

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Success criteria for a project

- **Schedule**: within the specified timeframe
- **Budget**: within the pre-defined budget
- **Scope**: as specified
- Satisfied customers, stronger team, and good quality of work

Topics to be covered

- Software engineering processes
- Project scope and requirement management
- Project risk management
- Project cost management
- Project communication management
- Project quality management

Schedules

1. Overview of software engineering including case studies
2. Software process and project planning lecture
3. Scope and requirement management lecture 1
4. Scope and requirement management lecture 2
5. Risk management lecture 1
6. Risk management lecture 2
7. Risk management practice (presentation)
8. Communication management lecture
9. Communication management practice (presentation)
10. Cost management lecture
11. Time management lecture
12. Quality management lecture
13. Configuration management and process improvement lecture
14. Final presentation

Course project

Project Plan Template (focusing on software)

- **Introduction**
 - Purpose
 - Scope
 - Assumptions
- **Project practices**
 - Technical practice (scope management)
 - Quality practice (quality management)
 - Management practice (risk management, etc.)
- **Work Breakdown Structure (WBS)**
- **Project Organization (human resource and communication management)**
 - Team structure
 - Roles, Responsibilities, and Authorities
- **Resource Allocation (time and cost management)**
 - Activity network / Critical path
 - Staffing profile
 - Schedule
- **Glossary**

Course forms

- Lecture
- Discussions
- Course project, reports, finalized project plan
- Presentation
- Scores: project work + presentations + attendance

References

- Bruegge & Dutoit, “Object-Oriented Software Engineering”
- Sommerville, “Software Engineering”
- Project management Institute, “A Guide to the Project Management Body of Knowledge: PMBOK(R) Guide”
- Kathy Schwalbe, “Information Technology Project Management”