

Course Syllabus

1. **Program of Study** Bachelor of Science (Computer Science)
Faculty/Institute/College Mahidol University International College
Mahidol University

Course Code ICCS 432 **Course Title** Software Engineering Project Management
2. **Number of Credits** **4 (Lectures/lab) (4 - 0)**
3. **Prerequisite(s)** ICCS 365
4. **Type of Course** Elective
5. **Trimester / Academic Year** Trimester I / Year 2005 - 2006
6. **Course Description**
Management of the software development process, including: how projects arise, choosing the right project, software life cycles, human factors in project management, basic project management techniques including planning, estimating, monitoring progress, advanced project management techniques (e.g. risk management, configuration management, quality management, process improvement); Fundamentals of requirements engineering: requirements elicitation and analysis, requirements definition and specification, requirements validation, requirements management, overview of specification techniques; practice of software engineering tasks in a team setting
7. **Course Objective(s)**
By the end of the course students should be able to:
 - Describe and explain the modeling process and software life-cycle
 - Plan and manage projects
 - Apply appropriate principles of software engineering and tools in every phase of software life-cycle, such as the requirement, design, and implementation phases
 - Develop skills in a number of positions involved in the software development, such as the team leader, the designer, and the tester.
 - Deliver good-quality software

8. Course Outline

Week	Topic		Instructor
	Lecture	Hour	
1	Introduction	4	Dr. Prajuab Vanichchudchawan
2	Modeling the Process and Life-cycle	4	
3	Planning and Managing the Project	4	
4	Capturing the Requirements	4	
5	Designing the System	4	
6	Concerning Objects	4	
7	Writing & Testing the Programs	4	
8	Testing & Delivering the System	4	
9	Maintaining the System	4	
10	Evaluating Products, Processes, and Resources	4	
11	Improving Software Engineering Practice, Review	4	
	Total	44	

9. Teaching Method(s)

Lectures, in-class practical exercises, discussion, and self-study

10. Teaching Media

Text and teaching materials, Powerpoint, and handouts

11. Measurement and Evaluation of Student Achievement

Assessment made from stated criteria: students with 85% obtain grade A

12. Course Evaluation

1. Participation	5%	4. Mid-term exam	20%
2. Assignments (×5)	25%	5. Final exam	35%
3. Project	15%		

13. Reference(s)

Pfleeger, S. & J.M. Atlee, 2005. Software Engineering – 3rd ed. Prentice Hall.
 Lethbridge, T., 2004. Object-oriented Software Engineering: Practical Software Development Using Uml And Java. Mcgraw-Hill College.
 Thayer, R., et al., 2000. Software Engineering Project Management – 2nd ed. Wiley-IEEE Computer Society.

14. Instructor(s)

Dr. Prajuab Vanichchudchawan

15. Course Coordinator

Dr. Prajuab Vanichchudchawan