Course Syllabus

Course ID	2301660
Credit	3
Course title	Large Scale Software Project Management
Faculty/Department	Science/Mathematics
Semester	Spring
Academic year	2010
Instructor	Assoc. Prof. Dr. Peraphon Sophatsathit
Course requirements	prerequisite 2301712 or C.F.
Course orientation	Mandatory elective
Program	M.S. in Computer Science and Information Technology
Course standing	Graduate
Course description	Theoretical and practical aspects of large scale software project management; team programming; quality and productivity measurement; with emphasis on practice of software planning; organizing; and development of programming system products.

Course outline

1 - 3	Introduction
4 - 6	Overview of project management
7 - 12	Capability Maturity Models Integration (CMMI)
13 - 17	Problems and solutions to project management
18 - 20	Risk estimation
21 - 23	Evolutionary delivery
28 - 30	Project specifications
31 - 33	The inspection process
34 - 36	Planning and implementation
37 - 40	Project communications
41 - 45	Case study

assessment	Midterm	25%
	Final	30%
	Term project	40%
	Quizzes	5%

Grading criteria	86 – 100	A	83 – 85	B+
	80 – 82	B	75 – 79	C+
	65 – 74	C	60 – 64	D+
	50 – 59	D	0 - 49	F

Textbook:

1. Principles of Software Engineering Management, Tom Gilb, Addision-Wesley, 1988.

References:

1. Dynamics of Software Development, Jim McCarthy, Microsoft Press, 1999.
2. Six Sigma Software Development, Christine B. Tayntor, Auerbach Publications, 2003.
3. Interpreting the CMMI–A Process Improvement Approach, Margaret K. Kulpa and Kent A. Johnson, Auerbach Publications, 2003.
4. Software Metrics – A Guide to Planning, Analysis, and Application, C. Ravindranath Pandian, Auerbach Publications, 2004.
5. Information Technology Project Management, Kathy Schwalbe, Fifth Edition, Thomson Course Technology, 2007.
6. Introduction to the Personal Software Process, Watts S. Humphrey, Addison-Wesley Longman, Inc., 1997.
7. http://www.pmi.org
8. http://www.sei.cmu.edu/publications/publications.html