CSC 584 - Software Project	Planning and	Management
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Instructor	Jack Han	E-Mail	jhan@csudh.edu
Classroom	SAC 3142	Class Time	Tuesday 7:00pm – 9:45pm
Office	NSM A-133	Office Hours	Wendesdayay: 9:30am–1:30pm pm
Phone	(310) 243-2624		OR by Appointments

CATALOG DESCRIPTION:

The main topics of this course address the successful management of a software development project. This includes planning, scheduling, tracking, cost and size estimating, risk management, quality engineering, and process improvement. The course is centered on the concept of a software engineering process and includes discussion of life cycle models for software development.

PRE-REQUISITE: CSC481: Software Engineering

TEXTBOOK:

Ronald J. Reifer (2006) *Software Management*, 7th Edition, Wiley-Interscience. ISBN-13: 978-0471-77562-1, ISBN-10:0471-77562-2

COURSE GOALS:

This course aims to expose students the general background information on software management, discuss the six basic functions of software management, and introduce some advanced software management topics. Students are expected to best practice in software management and to develop professional executive skills enabling students to be a valuable part of a software development and management.

COURSE OUTCOMES:

Upon completion of this course, students will be able to:

- 1. familiarize with the background information needed to practice software engineering project management, including the current concerns and challenges of software management, modern software life cycles and related extreme methodologies, and software process improvement;
- 2. master the six basic functions of software management as applied to software projects: planning, estimating, organizing, staffing, directing, and controlling;
- 3. understand some advanced software management topics such as risk management concepts and their application on large and complex projects, metrics and measurement, acquisition management, etc.

REQUIREMENTS:

There will be **FOUR** intensive writing assignments and **FOUR** presentations as well as **ONE** research project. The writing assignments will be the summarizations on the prescribed reading articles. The presentation will be based on your writing assignments and must be powerpointed. The research project topic should be determined by the student and approved by the instructor. The research project report should be submitted by the end of the semester.

GRADING BREAKDOWN:

Reading Reports:	30%, 7.5% each
Reading Presentations:	20%, 5% each
Research Project Presentation:	10%
Research Project Report:	40%

GRADING SCALE:

[94,100] = A	[90-93) = A-	
[85-90) = B+	[80-85) = B	[75-80) = B-
[70-75) = C+	[65-70) = C	below $65 = F$

COURSE OUTLINE (Tentatively and subject to change)

Week	Topic	Note
1	Software	Applied Software Project Management
	Planning and	By A. Stellman and J. Greene
	Management	
		Instructor Presentation: Software Project Planning
2		Instructor Presentation: Software Project Management
3	Project	1. Principles of Software Engineering Project Management – p. 9-14
	Management	2. The "3 P's" of Software Management – p. 15-20
		3. Traditional Software Management Approaches – p.119-128
		4. Software Management's Seven Deadly Sins – p. 5-8
4		5. Why Big Software Project Fails: The 12 Key Questions – p.21-26
		6. In-House Software Development: What Project Management Practices
		Lead to Success? $-p.129-136$
		7. Critical Success Factor in Software Projects – p27-32
_		8. 21 Project Management Success Tips – p.145-152
Э		Group 1: presents papers 1 to 4
(Diamaina and	Group 2: presents papers 5 to 8
0	Flanning and	1. The Secrets of Planning Success – p.10/-1/4 2. The Nine Deadly Sine of Project Planning – p.127, 140
	Estimating	2. The Nine Deadly Sins of Project Planning – p.157-140
		5. Requirements Engineering as a Success Factor in Software Projects –
		p.15/-105 4 The Shaker's Guide to Project Treaking p 175 174
7		4. The Stacker's Guide to Project Tracking – p.173-174
/		5. Software Engineering Economics - p.202.226
		7 Web Development: Estimating Quick to Market Software n 227 234
		8 Software Size Estimation of Object-Oriented Systems – p. 235-248
8		6. Software Size Estimation of Object-Oriented Systems – p.255-246 Group 2: presents papers 1 to 4
0		Group 1: presents papers 5 to 8
9	Staff and	1. Staffing and Organization in the Engineering of Systems – p.251-258
	Organization	2. Survival Patterns in Fast-Moving Software Organization - p.273-278
	management	3. Coaching the Rookie Manager – p.285-288
	-	4. Training Developers in Critical Skills – p.289-294
10		5. The Softer Side of Project Management – p.299-302
		6. The Human Side of Management – p.305-310
		7. Motivating and Keeping Software Developers – p.311-314
		8. Successful Software Management: 14 Lessons Learned – p.315-318
11		Group 1: presents papers 1 to 4

		Group 2 presents papers 5 to 8
12	Project	1. Controlling Software Projects – p.327-336
	Control, Risk	2. Managing Software Quality with Defects – p.349-352
	Management,	3. Understanding the Risk Management – p.361-364
	and Metrics	4. Software Risk Management: Principles and Practices – p.365-374
13	Measurement	5. Metrics and Management: A Primer – p.397-402
		6. Back to The Basics: Measurement and Metrics – p.403-406
		7. Software Defect Reduction Top 10 List – p.419-422
		8. Software Acquisition Management – p.437-450
14		Group 2: presents papers 1 to 4
		Group 1 : presents papers 5 to 8
15	Research	
16	Project	Research project presentation

GENERAL POLICIES:

ACADEMIC HONOR CODE

Programming assignments must be done individually. Failure to do so will result in a violation of the CSUDH Academic Honor Code. The following cases will be considered as violations: identical code, and extremely similar code. Violations will be reported to the Office of Vice President of Academic Affairs.

STUDENT ACADEMIC APPEALS PROCESS

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, error, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

ADA STATEMENT

Students with disabilities, who believe they may need an academic adjustment in this class, are encouraged to contact me as soon as possible to better ensure receipt of timely adjustments.

DEFINITION OF CHEATING AND PLAGIARISM

CSUDH is dedicated to a high standard of academic integrity among its faculty and students. In becoming part of the California State University academic community, students are responsible for honesty and independent effort. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit. (Read University Regulations in University Catalog)