Faculty of Computing and Information Technology
Department of Information Systems

Course Binder

CPIS-334

Introduction to Software Project Management

Instructor(s)

Dr. Usman A. Khan, Associate Professor (Coordinator)

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Spring 2012-2013 (Second Semester - 1433 - 1434)

Contents

About the Course Binder

This document is a comprehensive record of how the course is delivered and how it performs. It documents how the specifications outlined in the syllabus are realized which enables course stockholders to track learning and to identify potential issues. While the syllabus states the purpose, contents, relation to other courses, course outcomes, and what major student outcomes are addressed, the course binder clarifies instruction design, methods, student learning as reflected by extent of outcome achievement, and improvements.

Teaching Portfolio

Course Design and Mapping to Outcomes (Course Articulation Matrix)

Mapping of CLO to Student Outcomes

	Course Learning Outcomes	Contact Exposure Hours	Activity Exposure Hours	An ability to apply knowledge of computing and mathematics a (A)	An ability to analyze a problem, and identify and define the con (B)	An ability to design, implement, and evaluate a computer-based (C)	An ability to function effectively on teams to accomplish a com (D)	An understanding of professional, ethical, legal, security and so (E)	An ability to communicate effectively with a range of audiences (F)	An ability to analyze the local and global impact of computing ((G)	Recognition of the need for and an ability to engage in continui (H)	An ability to use current techniques, skills, and tools necessary (I)	An understanding of processes that support the delivery and ma (J)	Number of SOs covered by One CLO
1	Cite and prioritize information systems projects and to determine various aspects of feasibility of these project	1			1									1
2	Identify the foundations of project management, including its definition, scope, and the need for project	2			1									1
3	Identify the phases of the project management lifecycle.	3			1								1	2
4	Manage project teams, including the fundamentals of leadership and team motivation.	2					1							1
5	Manage project communication, both internal to the team, and external to other project stakeholders.	2					1		1					2
6	Initiate projects, including project selection and defining project scope.	2			1							1		2
7	Manage project schedules with appropriate techniques and tools.	3										1		1
8	Manage project resources, including human resources, capital equipment, and time.	2			1						1			2
9	Manage project quality, including the identification of the threats to project quality, techniques for measuring	3									1			1
10	Manage project risk, including the identification of project risk, and the techniques for ensuring project risl	3			1									1
11	Manage the project procurement process, including understanding external acquisition and outsourcing, as	2									1			1
12	Manage project execution, including monitoring project progress and managing project change, and app	1				1								1
13	Control projects through information tracking and cost and change control techniques.	1											1	1
14	Close projects, including administrative, personnel, and contractual closure.	1											1	1
15	Identify and describe the mechanisms for dealing with legal issues in complex project contexts.		1					1		1				2
16	Appreciate ethnic cultural differences in working with global teams either internal to organizations or by enga		1					1		1				2

Mapping of CLO to Student Outcomes

Course Learning Outcomes	Contact Exposure Hours	Activity Exposure Hours	An ability to apply knowledge of computing and mathematics a A	An ability to analyze a problem, and identify and define the con B	An ability to design, implement, and evaluate a computer-based C	An ability to function effectively on teams to accomplish a com D	An understanding of professional, ethical, legal, security and so E	An ability to communicate effectively with a range of audiences F	An ability to analyze the local and global impact of computing G	Recognition of the need for and an ability to engage in continui H	An ability to use current techniques, skills, and tools necessary I	An understanding of processes that support the delivery and ma J	Number of SOs covered by One CLO
Number of CLO's covered by One SO			0	6	1	2	2	1	2	3	2	3	

Mapping of CLO to Activities and Assessments

	Course Learning Outcomes	Class Discussion	Exercises	Group Project	Lab	Lectures	Reading/Selfstudy	Thinking-based Activity	Final Exam	Lab	Midterm Exam 1	Midterm Exam 2	Quiz	Number of Activities and Assessments covered by one CLO
1	Cite and prioritize information systems projects and to determine various aspects of feasibility of these projects.					1					1			2
2	Identify the foundations of project management, including its definition, scope, and the need for project m			1		1				1	1			4
3	Identify the phases of the project management lifecycle.	1		1	1	1				1	1			6
4	Manage project teams, including the fundamentals of leadership and team motivation.			1		1			1					3
5	Manage project communication, both internal to the team, and external to other project stakeholders.			1		1			1					3
6	Initiate projects, including project selection and defining project scope.	1			1	1				1	1			5
7	Manage project schedules with appropriate techniques and tools.		1		1	1		1		1	1		1	7
8	Manage project resources, including human resources, capital equipment, and time.				1	1			1	1				4
9	Manage project quality, including the identification of the threats to project quality, techniques for measuring pr	1				1		1				1	1	5
10	Manage project risk, including the identification of project risk, and the techniques for ensuring project risk i	1				1		1				1		4
11	Manage the project procurement process, including understanding external acquisition and outsourcing, as we					1			1					2
12	Manage project execution, including monitoring project progress and managing project change, and appropriately				1	1			1	1				4
13	Control projects through information tracking and cost and change control techniques.					1			1					2
14	Close projects, including administrative, personnel, and contractual closure.					1			1					2
15	Identify and describe the mechanisms for dealing with legal issues in complex project contexts.						1						1	2
16	Appreciate ethnic cultural differences in working with global teams either internal to organizations or by engagi						1						1	2
Number of CLO's covered by one Activity/Assessment		4	1	4	5	14	2	3	7	6	5	2	4	

Course Instruction Plan

Course Assessments and Grade Distribution

Number	Course Assessment Tools	Percent
1	Final Exam	30
2	Midterm Exam 1	15
3	Midterm Exam 2	15
4	Assignment	15
5	Lab	10
6	Project	15
		100

Weekly Teaching Schedule

Week	Topic Details
1	**Introduction to Project Management** Project management terminology, what is project management, Foundations of Project Management and its importance, Roles of the Project Manager in today's software intensive environments.
2	**The Project Management Lifecycle** What is the project management lifecycle?Project management and systems development or acquisition, The project management context, Technology and techniques to support the project management lifecycle, Project management processes.
3	**Managing Project Teams** Acquire project team, develop project team and manage project team including the fundamental of Leadership and team motivation
4	**Managing Project Communication** Identify Stakeholders, Plan Communications, Distribute Information, Manage Stakeholder Expectations, Report Performance.
5	**Project Initiation and Planning** How a project is initiated with project charter. Defining assumptions, risks, border time lines etc.Plan a project with scope, time, cost, HR, procurement, and risks management.
6	**Managing Project Scope** Gather Requirements, Define Scope, Create WBS, Verify Scope & Control Scope.
7	**Managing Project Scheduling** Define activities, sequence activities, estimate activities resources, estimate activity durations, develop schedule & control schedule.
8	**Managing Project Resources** What are resources, Types of resources (human, capital, time), Techniques for managing resources?
9	**Managing Project Quality** Plan quality, Perform quality assurance, Perform quality control, estimate costs, determine budget & control coast.
10	**Managing Project Risk** Understand what are known unknown & unknown unknown risk, Plan risk management, identify risks, perform qualitative risk analysis, perform quantitative risk analysis, plan risk responses, monitor and control risks.
11	**Managing Project Procurement** Determine what is to be purchased, how to be purchased, when to be purchased, Plan procurements, Conduct procurements, Administer procurements, Close procurements.
12	**Project Execution, Control & Closure** Understand how to execute the project, Monitoring progress and managing change, Common problems in project execution.
13	**Managing Project Control & Closure** Understand controlling timelines, cost & scope of the project along with managing stakeholders expectations, how to close project with performance appraisals, contract closure etc.
14	**Managing legal issues and understand ethnic cultural differences** Understand the Ethical and legal aspects of Project Management.

Course Instructional Methods

Lectures
Instructor shall teach the topics of the course related to course learning outcomes. Students are provided with power point presentation of the lectures and have been told to read various related topics from the book and where necessary search on the net. The course learning outcomes are evaluated by Final Examination, Mid Term Examinations. The answers to the various problems given in the examination are discussed in the class. Solutions are discussed in class tol enhance the creativity skills of the students

Labs/Tutorials
In the lab sessions, students are expected to use MS-Project as a tool. The Lab Instructor/Lecturer maintains a lab manual and guides the students in the lab sessions. Sometimes some problems related to MS-Project are given to the students for completion.

Class participation
Students are encouraged to participate in class discussions and thus enhance there creativity and communication skills.

Projects
Projects are assigned to students as groups and ecah member of the group has to make a presentation about the work and role that he has done in the project, this encourages team work and comunication skills.

Course Assessment Methods

Direct

Final Exam

Quiz

Quiz

Exams

Mid Term Exam

Indirect

Project, Assignment, Class Presentation

Course Assessment

Summary of Course Assessment

Direct Key SO Performance

Key Student Outcome	B	D	H
Performace	87	91	90

Indirect Key SO Performance

Key Student Outcome	B	D	H
Performace	0	0	0

Direct Course Performance

Summary of Sections

#	Course	Section	Total Students	An ability to apply knowledge of computing and mathematics appropriate to the discipline. A	An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. B	An ability to design, implement, and evaluate a computer-based system, process, component, or program C	An ability to function effectively on teams to accomplish a common goal. D	An understanding of professional, ethical, legal, security and social issues and responsibilities. E	An ability to communicate effectively with a range of audiences. F	An ability to analyze the local and global impact of computing on individuals, organizations, and society. G	Recognition of the need for and an ability to engage in continuing professional development. H	An ability to use current techniques, skills, and tools necessary for computing practice. I	An understanding of processes that support the delivery and management of information systems within a specific J
1	CPIS-334	AA	25		88		88				96		
2	CPIS-334	AAR											
3	CPIS-334	ABR											
4	CPIS-334	ACR	13		100		100				100		
5	CPIS-334	ADR	9		100		100				100		
6	CPIS-334	AER											
7	CPIS-334	D1											
8	CPIS-334	D2											
9	CPIS-334	DA											
10	CPIS-334	EA	26		85		88				85		
11	CPIS-334	HA	19		74		89				79		
12	CPIS-334	IA											
13	CPIS-334	RA											
			92	**0**	**87**	**0**	**91**	**0**	**0**	**0**	**90**	**0**	**0**

Per Section Performance

To check performance of individual students in a section:

Click the desired section in the Summary of Sections.

Per Student Performance

To check the performance of student:

1. In the Summary of Sections, select desired section.
2. Select desired student.

Indirect Course Performance

Summary of Sections

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	AA	Dr. Usman A. Khan	33

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	AAR	Dr. Salha Binti Abdullah	32

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	ABR	Dr. Salha Binti Abdullah	29

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	ACR	Dr. Usman A. Khan	13

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	ADR	Dr. Usman A. Khan	37

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	AER		21

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	D1		10

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	D2		13

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	DA		624

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	EA	Dr. Usman A. Khan	236

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	HA	Dr. Usman A. Khan	22

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	IA		44

No Indirect Assessment Data Available.

Per Section Performance

Course	Section	Taught By	Tot.Std
CPIS-334	RA		9

No Indirect Assessment Data Available.

Continuous Improvement

End of Semester Report

Instructor Name
Dr. Usman A. Khan

Instructor Name
Dr. Salha Binti Abdullah