

" حيث تصبح الرؤية واقعاً"
"When Vision Becomes
Reality"

" عراقة وجودة"
Tradition and Quality

Detailed Course Description - Course Plan Development and Updating Procedures/ Department of Software Engineering	QF01/0408-3.0E
--	-----------------------

Faculty	Science and IT	Department	Software engineering
Course number	0114456	Course title	Software project management
Number of credit hours	3	Pre-requisite/co-requisite	0114343

Software project management is concerned with the knowledge of planning, organization, and monitoring of all software life-cycle phases. Software management ensures software development to an organization in software versions and configurations. Project work is divided appropriately, communication is facilitated, and progress is accurately charted.

يُعرض في هذا المساق مقدمه حول مشاريع البرمجيات، وظيفة مدير المشروع ، دورة الحياة للمشروع و كيفية ادارتها ، وتميز الفروقات بينها وبين المشاريع الأخرى، ادارة المخاطر، تقدير كلفة المشروع ، ادارة الجودة، جدولة المشاريع من قبل الإداريين لضمان إنجاز المشروع في الوقت المحدد، إيجاد مؤشرات منبهة للحالات غير الاعتيادية حين ظهورها والمرونة في إعادة تخطيط المشروع وفقاً لذلك وتشخيصها ، و تعريف أنشطة المشروع حسب التسلسل الزمني.

Course goals and learning outcomes	
Goal 1	Initiate and manage projects efficiently and effectively.
Learning outcomes	1.1 Understand project management design, development, and deployment 1.2 Apply management techniques to projects that follow agile methodologies, as well as methodologies involve larger-scale iterations or releases. 1.3 Use project management tools, techniques, and skills Effectively estimate costs for a project using several different techniques. 1.4 Measure project progress, productivity and other aspects of the software process.
Goal 2	Learn and apply key project management skills and strategies
Learning outcomes	2.1 Employ strategies to address the ubiquitous issue of resistance to change 2.4 Perform risk management, dynamically adjusting project plans.
Goal 3	have the opportunity to apply this knowledge through team work
Learning outcomes	3.1 Engage and lead effective project management teams in your organization 3.2 Develop a comprehensive project plan for a significant development effort. 3.3 Impart project management knowledge, tools, and processes to your colleagues
Textbook	1. Schwalbe, Kathy. Information Technology Project Management (8th Editio) 2015.
Supplementary references	1- Luckey, Teresa. and Phillips, Joseph. "Software Project Management for Dummies". Wiley Publishing Inc., 2006. 2- Stepanek, George. "Software Project Secrets: Why Software Project Fail". APress, 2005. 3- Carl Chatfield, and Timothy Johnson. "Microsoft Project 2010: step by step. 2010 4- Harold R. Kerzner. "Project Management: A Systems Approach to Planning, Scheduling, and Controlling". Eleventh Edition, 2013.

" حيث تصبح الرؤية واقعاً "
"When Vision Becomes
Reality"

" عراقة وجودة "
Tradition and Quality

Detailed Course Description - Course Plan Development and Updating Procedures/ Department of Software Engineering	QF01/0408-3.0E
--	-----------------------

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1 1	Introduction to Project Management (PM) <ul style="list-style-type: none"> • What is a project? • What is a project management? • The role of the project management. • The project management profession. 	Chapter 1	
02	1 1 1	The PM and IT context <ul style="list-style-type: none"> • A system view of PM. • Understanding organization • Stakeholder management • Project phases and project life cycle. • The context of IT projects. 	Chapter 2	
03	1 1 1	The PM process groups <ul style="list-style-type: none"> • Process groups. • Mapping the process groups to the 9th KAs. 	Chapter3	
04	1 1 1	Project Integration Management <ul style="list-style-type: none"> • What is project integration management? • Strategic planning and project selection. • Project charter and preliminary scope statement. 	Chapter 4	
05	1 1 1	<ul style="list-style-type: none"> • Project management plans. • Project execution. • Monitoring and controlling project work. • Integrated change control. • Closing projects. 	Chapter 4	
06	1 1 1	Exercises-project discussion Review of previous chapters First Exam (20%)		
07	1 1 1	Project scope management <ul style="list-style-type: none"> • What is project scope management? • Scope planning and the scope management plan. • Scope definition and the project scope statement. • Creating the work breakdown structure 	Chapter 5	

"حيث تصبح الرؤية واقعاً"
"When Vision Becomes
Reality"

"عراقة وجودة"
Tradition and Quality

Detailed Course Description - Course Plan Development and Updating Procedures/ Department of Software Engineering	QF01/0408-3.0E
--	-----------------------

		(WBS). • Scope verification and control.		
08 + 09	1 1 1 1 1 1	Project time management • The importance of project scheduling. • Activity definition. • Activity sequencing. • Activity resource estimating. • Activity duration estimating. • Schedule development. • Schedule control.	Chapter 6	Using Microsoft project
10	1 1 1	Case study Examples: Practicing		Using Microsoft project
11	1 1 1	Project cost management • The importance of project cost management. • Basic principles of cost management. • Cost estimating. • Cost budgeting and control.	Chapter 7 + Lecture Notes	Using Microsoft project
12	1 1 1	Exercises Review of pervious chapters Second exam (20%)		
13	1 1 1	Project quality management • What is project quality management? • Quality planning, assurance and control. • Tools and techniques for quality control. • Modern quality management.	Chapter 8	
14	1 1 1	Project Risk Management • Risk management planning • Common sources of risk on IT projects. • Risk identification.	Chapter 11	
15	1 1 1	• Qualitative risk analysis. • Quantitative risk analysis. • Risk response planning.	Chapter 11	
16	1 1	Final Exam 50%		

Theoretical course evaluation methods	Participation = 10% First exam 20%	Practical (clinical) course evaluation	Semester students' work = 50%
--	---------------------------------------	---	----------------------------------

"حيث تصبح الرؤية واقعاً"
"When Vision Becomes
Reality"

"عراقة وجودة"
Tradition and Quality

Detailed Course Description - Course Plan Development and Updating Procedures/ Department of Software Engineering	QF01/0408-3.0E
--	-----------------------

and weight	Second exam 20% Final exam 50%	methods	(Reports, research, quizzes, etc.) Final exam = 50%
-------------------	-----------------------------------	----------------	---

Approved by head of department		Date of approval	
---	--	-------------------------	--

Extra information (to be updated every semester by corresponding faculty member)

Name of teacher		Office Number	
Phone number (extension)		Email	_____@zug.edu.jo
Office hours			