

King Fahd University of Petroleum & Minerals

Deanship of Educational Services Continuing Education Programs

Short Course

Proposed course title in English: Software Project Management

Proposed course title in Arabic: إدارة مشاريع البرمجيات

Brief description in English		Brief description in Arabic	
Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, team organization, and people management. Gives special attention to problems unique to software process.		يعرض مواضيع وتقنيات هامة لإدارة تطوير البرمجيات، بما في ذلك تقدير، تخطيط، نوعية، تتبع، تنظيم الفريق، وإدارة الناس. انتباه خاص إلى مشاكل الخاصة بعملية تطوير البرمجيات.	
Date and Time – Gregorian		Date and Time – Hijri	
Saturday to Wednesday, April 20-24, 2013		Jumaada al-THaany 10 to 14, 1434H	
Department		Language	
Information and Computer Science		English	
Course fee	Course duration	Course location	
7,000 SR	5 Full days	Building 54	

Who should attend?

This course is targeted to benefit software project managers and team leads team members.
This course also provides a preparation for the PMI “Project Management Professional (PMP)” examination.

Detailed course description:

Principles of software project management, metrics, cost estimation, software project planning, organizing, resource allocation, directing and controlling, risk management, software configuration management, role of standards, management tools. The course is based on PMBOK 4th Edition.

Upon completion of this part, participants will have the ability to:

- Design processes suitable for different types of projects.
- Develop a comprehensive project plan for a significant development effort.
- Apply management techniques to software projects.
- Estimate costs for a project using several different techniques.
- Measure project progress, productivity and other aspects of the software process.
- Perform risk management and adjust project plans.
- Use configuration management tools, and apply change management processes.
- Assess the quality of the software products.
- Procurement management.
- Perform root cause analysis, and work towards continual improvement of process.

Human resource and communication management

Course outline/topics:

1. Introduction to Project Management
2. Project Management Process
3. Software Development Process Models
4. Tailoring and Customizing the Software Process
5. Software Project Planning
6. Project Scope Management
7. Project Scheduling and Tracking
8. Software Cost Estimation
9. People & Communication Management
10. Risk Analysis and Management
11. Project Quality Management
12. Project Procurement Management
13. Software Configuration Management
14. Software Process and Project Metrics

Name and designation of instructors:

Name	Designation
1. Dr. Mohammad Alshayeb, PMP	Associate Professor, ICS department
2. Dr. Moataz Ahmed	Associate Professor, ICS department
3. Dr. Mahmoud Niazi	Associate Professor, ICS department
4. Dr. Mahmoud Elish	Associate Professor, ICS department
5. Dr. Mohammed El-Attar	Assistant Professor, ICS department
6. Mr. Irfan Ahmed	Lecturer, ICS department

Name and specialization of visiting instructor(s) (if any):**Course special arrangements (if any):**

This course requires the use of Software Engineering lab with MS-Project and Visual Source Safe or SVN.

Coordinator Information

Name	Contact Tel. Nos.: & Fax No.	E-mail Address
Dr. Mohammad Alshayeb	Tel: 860-4874 Mobile: 0501370840 Fax: 860-2174	alshayeb@kfupm.edu.sa

