

# King Fahd University of Petroleum & Minerals

## Deanship of Educational Services Continuing Education Programs

### Short Course

<b>Proposed course title in English:</b>	<b>Software Analysis &amp; Design Using UML</b>
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<b>Proposed course title in Arabic:</b>	<b>هندسة البرمجيات باستخدام لغة النمذجة الموحدة</b>
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Brief description in English		Brief description in Arabic	
This course provides software professionals with a comprehensive coverage of software engineering analysis and design using UML.		يوفر هذا المساق لمحترفي البرمجيات تغطية شاملة لتحليل وتصميم البرمجيات باستخدام لغة النمذجة الموحدة (UML).	
Date and Time – Gregorian		Date and Time – Hijri	
Saturday to Wednesday, May 18-22, 2013		Rajab 8 to 12, 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 analysts, developers, architects, designers, testers and managers. Some background and experience in software development will be helpful.

#### Detailed course description:

This course explains the importance of good software practices that addresses the software crisis and explains the incremental and iterative software development with Rational Unified Process. It introduces the Unified Modeling Language (UML) and explains its use in requirement specification, analysis and design. Software architecture and reuse through design patterns shall be explained. Participants shall be trained to use tools like Enterprise Architect.

#### Course outline/topics:

1. Best practices in software engineering
2. Rational unified Process
3. Unified Modeling Language (UML)
4. Enterprise Architect
5. Requirement Engineering using UML
6. Software architecture and design using UML
7. Design Patterns

**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 Elish	Associate Professor, ICS department
4. Dr. Sajjad Mahmoud	Assistant 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):**

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**Course special arrangements (if any):**

This course requires the use of Software Engineering lab with Enterprise Architect.

**Coordinator Information**

Name	Contact Tel. Nos.: & Fax No.	E-mail Address
Dr. Mohammad Alshayeb	Tel: 860-4874 Mobile: 0501370840 Fax: 860-2174	<a href="mailto:alshayeb@kfupm.edu.sa">alshayeb@kfupm.edu.sa</a>

