



UNIVERSITI MALAYA

	UNIT PENGURUSAN PENJAMINAN KUALITI qamu@um.edu.my
	MAKLUMAT SEMASA KURSUS

Peringatan: Kandungan Maklumat Semasa Kursus ini tidak boleh diubah tanpa kelulusan jabatan / bahagian berkenaan.

Tahun Akademik: Semester:	2003/2004 2
Kod Kursus : Tajuk Kursus : Jam Kredit : Prasyarat / Keperluan Minimum Kursus :	WXGC6102 Object-Oriented Techniques 3 Attendance > 80%
Rujukan Utama :	<ol style="list-style-type: none"> 1. Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> 2nd Edition, McGraw-Hill. 2. Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i>. McGraw-Hill. 3. Stephen R. Schah. <i>Introduction to Object-Oriented Analysis and Design with UML and the Unified Process</i>. McGraw-Hill, 2004.
Bahan Pengajaran/ Peralatan :	Materials from textbooks and journal/conference articles in Word document format. Photostated copies from reference books will also be used in teaching/discussion in class.
Kaedah Pengajaran- Pembelajaran :	Teaching and assignments.
Pensyarah: Bilik: Tel / email:	Assoc. Prof. Dr. Lee Sai Peck D6 (Main Building) 79676361 / saipeck@um.edu.my
Hari / Masa Kuliah : Bilik: Tutorial / Amali : Bilik:	Refer to FSKTM Timetable Webpage Refer to FSKTM Timetable Webpage
Tarikh-Tarikh Penting :	<p>The semester test will be held in the 9th week.</p> <p>The quiz will be held in the 12th week.</p> <p>The final exam will be held in March 2004</p> <p>Course evaluation will be conducted in the 12th week.</p>


UNIVERSITI MALAYA

	UNIT PENGURUSAN PENJAMINAN KUALITI qamu@um.edu.my
	MAKLUMAT SEMASA KURSUS

JADUAL PENGAJARAN


MINGGU	TAJUK KULIAH / TUTORIAL / KERJA KURSUS	RUJUKAN / BAHAN / PERALATAN
1	<p>Introduction to the course structure.</p> <ul style="list-style-type: none"> • Explanation of course structure • Selection/explanation of course assignments and presentation • Generation introduction of course syllabus and reference books. <p>Information systems in practice and systems theory.</p>	<p>Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i>. 2nd Edition, McGraw-Hill. (Chapter 1)</p> <p>Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i>. McGraw-Hill.</p>
2	<p>Problems in systems development.</p> <ul style="list-style-type: none"> • Problems in systems development • Methodological approaches • CASE • UML 	<p>Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i>. 2nd Edition, McGraw-Hill. (Chapters 2 & 3)</p> <p>Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i>. McGraw-Hill.</p>
3	<p>Object-orientation.</p> <ul style="list-style-type: none"> • Basic concepts • Object-oriented languages, techniques and tools • Case studies 	<p>Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i>. 2nd Edition, McGraw-Hill. (Chapter 4)</p>
4	<p>Modeling concepts.</p> <ul style="list-style-type: none"> • Models and diagrams • Development process 	<p>Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i>. 2nd Edition, McGraw-Hill. (Chapter 5)</p> <p>Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i>. McGraw-Hill.</p>
5	<p>Requirements capture.</p> <ul style="list-style-type: none"> • User requirements • Documenting requirements • Requirements capture and modeling using use cases • Case study 	<p>Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i>. 2nd Edition, McGraw-Hill. (Chapter 6)</p>

UNIVERSITI MALAYA

	UNIT PENGURUSAN PENJAMINAN KUALITI qamu@um.edu.my
	MAKLUMAT SEMASA KURSUS

		McGraw-Hill. (Chapter 6) Ali Bahrami. 1999. Object-Oriented Systems Development using UML. McGraw-Hill.
6	Requirement analysis. <ul style="list-style-type: none"> • Use case realization • Analysis class diagram • CRC cards • Case study 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapter 7) Ali Bahrami. 1999. Object-Oriented Systems Development using UML. McGraw-Hill.
7	Refining requirements model. <ul style="list-style-type: none"> • Component-based development • Software development patterns Modeling object interaction. <ul style="list-style-type: none"> • Object interaction diagrams • Sequence diagram • Collaboration diagram 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapters 8 & 9) Ali Bahrami. 1999. Object-Oriented Systems Development using UML. McGraw-Hill.
8	Semester test. Discussion of related matters.	-
9	Operation specification. <ul style="list-style-type: none"> • Role of operation specification • Contracts • Operation logic description • Object constraint language • Case study 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapter 10) Ali Bahrami. 1999. Object-Oriented Systems Development using UML. McGraw-Hill.
10	Control specification. <ul style="list-style-type: none"> • States and events • State diagram • Consistency checking • Quality aspects • Case study 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapter 11) Ali Bahrami. 1999.

UNIVERSITI MALAYA

	UNIT PENGURUSAN PENJAMINAN KUALITI qamu@um.edu.my
	MAKLUMAT SEMASA KURSUS

		Object-Oriented Systems Development using UML. McGraw-Hill.
11	Quiz. Design model. <ul style="list-style-type: none"> • Logical and physical design • System design and detailed (object) design • Quality aspects • Measuring objectives in design Reusable components. <ul style="list-style-type: none"> • Strategy for reuse • Commercially available component ware 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapters 12 & 20) Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i> . McGraw-Hill.
12	Design patterns. <ul style="list-style-type: none"> • Software development patterns • Pattern templates 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapters 15 - 17) Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i> . McGraw-Hill.
13	Design boundary classes. <ul style="list-style-type: none"> • Architecture of the presentation layer • Prototyping user interfaces 	Simon Bennett, Steve McRobb and Ray Farmer. 2002. <i>Object-Oriented Systems Analysis and Design using UML</i> . 2 nd Edition, McGraw-Hill. (Chapters 15 - 17) Ali Bahrami. 1999. <i>Object-Oriented Systems Development using UML</i> . McGraw-Hill.
14	Revision.	-