

## UNIVERSITI TEKNOLOGI MARA ASM653: SYSTEMS DESIGN AND DEVELOPMENT

Course Name (English)					
Course Code	Code ASM653				
MQF Credit	Credit 3				
Course Description	The focus of the course is the study of office systems, and the principles of systems analysis and design. Students will analyze office system requirements, propose system solutions and build an office system that meets an organization's needs. In addition, students will also investigate implementation and evaluation issues pertaining to standard project methodology. The course also emphasizes on various standard project methodologies and systems concepts.				
Transferable Skills	Demonstrate ability to apply creative, imaginative and innovative thinking and ideas to problem solving.				
	Demonstrate analytical skills using technology.				
	Demonstrate ability to investigate problems and provide effective solutions.				
Teaching Methodologies					
CLO	<ul> <li>CLO1 Explain the concept of planning, analysis and design of information system software</li> <li>CLO2 Assess the methodology and life cycle of system development and the related issues</li> <li>CLO3 Design and develop information system software</li> </ul>				
Pre-Requisite Courses	No course recommendations				
Topics					
Image: Construction         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.2         1.2         A Modern Approach to Systems Analysis and Design         1.3         1.3         1.3         1.4         Developing IS and the Systems Development Life Cycle					
2. 2 The Origins of Software 2.1) 2.1 Introduction 2.2) 2.2 Systems Acquisition 2.3) 2.3 Reuse					
3. 3 Identifying and Selecting Systems Development Projects         3.1) 3.1 Introduction         3.2) 3.2 Identifying and Selecting Systems Development Projects         3.3) 3.3 Corporate and Information Systems Planning					
<ul> <li>4. 4 Initiating and Planning Systems Development Projects</li> <li>4.1) 4.1 Introduction</li> <li>4.2) 4.2 The Process of Initiating and Planning Systems Development Projects</li> <li>4.3) 4.3 Assessing Project Feasibility</li> <li>4.4) 4.4 Building and Reviewing the Baseline Project Plan</li> </ul>					

5. 5 Determining System Requirements 5.1) 5.1 Performing Requirements Determination 5.2) 5.2 Requirement Determination Methods 5.3) 5.2.1 Traditional 5.4) 5.2.2 Contemporary 5.5) 5.2.3 Radical 5.6) 5.2.4 Agile
<b>6. 6 Structuring System Process Requirements</b> 6.1) 6.1 Introduction 6.2) 6.2 Logic Modeling: Object-Oriented Approach (Use Case Diagram & Decision Table)
7.7 Forms and Reports Design 7.1) 7.1 Introduction 7.2) 7.2 Formatting Forms and Reports 7.3) 7.3 Assessing Usability
<ul> <li>8. 8 Interfaces and Dialogue Design</li> <li>8.1) 8.1 Introduction</li> <li>8.2) 8.2 Interaction Methods and Devices</li> <li>8.3) 8.3 Designing Interfaces and Dialogues</li> <li>8.4) 8.4 Designing Interfaces and</li> <li>8.5) 8.5 Dialogues in Graphical Environment</li> </ul>
9. 9 Systems Implementation 9.1) 9.1 Introduction 9.2) 9.2 Software Application Testing 9.3) 9.3 Installation 9.4) 9.4 Documenting the System 9.5) 9.5 Training and Supporting Users 9.6) 9.6 Project Closedown
<b>10. 10 Systems Maintenance</b> 10.1) 10.1 Introduction 10.2) 10.2 Maintaining IS 10.3) 10.3 Conducting System Maintenance

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of						
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment	Assignment 1 - Role play (e.g. JAD session during requirements determination in Topic 5)	10%	CLO1		
	Assignment	Assignment 2 - based on Topic 6: Structuring System Logic Requirements. There are 2 questions. The students need to construct Logic Modeling: Object-Oriented Approach (Use Case Diagram & Decision Table).	10%	CLO2		
	Group Project	It is a group project which consists of 6 to 8 students per group. Objective of the project is to apply theories and methodologies that relate to information systems analysis and design. Each group must produce a compilation of project work. Students will be evaluated based on a standard evaluation: - Project proposal : 5% - Final Report : 10% - Presentation : 15% : - Prototype : 10% - Student presentation : 5%	30%	CLO3		
	Test	ONE test related to the concept of computer, communication and security require students to gain knowledge.	10%	CLO2		
Reading List	Recommended Text	Joseph S. Valacich, Joey F. George 2017, <i>Moder Analysis and Design</i> , 8th Edition Ed., Pearson E 1-292-15414-4]				
	Reference Book Resources	Connolly, T. & Begg C. 2010, Database Systems Approach to Design, Implementation and Manag Edition Ed., Addison Wesley				
		Harris 2009, <i>Essentials of Systems Analysis and</i> Edition Ed., Prentice Hall	l Design	., 4th		
		Kendall et al. 2010, <i>Systems Analysis and Desig</i> Ed., Prentice Hall	<i>n</i> , 8th E	dition		
		Shelly et al. 2010, <i>Systems Analysis and Design</i> Edition Ed., Cengage Learning	Method	<i>ls</i> , 8th		

Article/Paper List		This Course does not have any article/paper resources			
	Other References	This Course does not have any other resources			