


Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 <b>كلية المعرفة</b> ALMAAREFA COLLEGE
Date		التاريخ	

Course Code & No	<b>INFO242</b>	242نظم	رقم المقرر ورمزه
Course Name	<b>IS Analysis and Design</b>	تحليل وتصميم نظم المعلومات	اسم المقرر
Credit Hours	<b>3 (2 + 0 + 1)</b>	<b>( 1 + 0 + 2 ) 3</b>	عدد الساعات المعتمدة
Pre-requisite	<b>INFO 201 and COMP 211</b>	201 نظم و 211 حاسب	المتطلب السابق

<b>General Description</b>	<b>توصيف عام</b>
An overview of the systems development life cycle; methods for requirements collection and analysis; techniques for describing process flows; logical and physical design; entity-relationship modeling; structured and object-oriented methods; prototyping; CASE tools; UML.	

<b>Course Objectives</b>	<b>أهداف المقرر</b>
<ul style="list-style-type: none"> <li>• Learn the phases and activities of the Systems Development Life Cycle (SDLC).</li> <li>• Gather and analyze systems requirements.</li> <li>• Develop the necessary knowledge, skills, models and techniques to model business problems in both structured and object-oriented systems development paradigms.</li> <li>• Develop logical and physical designs for information systems.</li> <li>• Use computer aided software engineering (CASE) tools.</li> <li>• Model systems using the unified modeling language (UML).</li> </ul>	

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Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> <li>• Understanding a problem in its business context.</li> <li>• Project management tools and techniques relevant for a systems analyst.</li> <li>• SDLC models.</li> <li>• Approaches to systems development.</li> <li>• Investigating systems requirements.</li> <li>• Structured and Object-Oriented modeling techniques.</li> <li>• Context diagrams.</li> <li>• Data flow diagrams.</li> <li>• Data element and data flow definitions and process descriptions.</li> <li>• Object-Oriented Paradigm.</li> <li>• Object-Oriented context diagrams.</li> <li>• Class analysis diagrams.</li> <li>• Use-case diagram, activity diagrams.</li> <li>• Sequence diagrams.</li> </ul>	

References	المراجع
<ul style="list-style-type: none"> <li>• Hoffer, J., George, J, and Valacich, J., <b>Modern Systems Analysis and Design</b>, 7<sup>th</sup> edition, 2013, Addison-Wesley.</li> <li>• Satzinger, J. and Burd, J., <b>Systems Analysis and Design in a Changing World</b>, 6<sup>th</sup> Edition, 2011, Course Technology.</li> <li>• Maciaszek, L., <b>Requirements Analysis and Systems Design: Developing Information Systems with UML</b>, 2<sup>nd</sup> edition, 2004, Addison-Wesley or latest edition.</li> </ul>	