KINGDOM OF SAUDI ARABIA
IMAM MOHAMMAD IBN SAUD ISLAMIC UNIVERSITY
COLLEGE OF COMPUTER AND INFORMATION SCIENCES
INFORMATION SYSTEMS DEPARTMENT
BACHELOR ON INFORMATION SYSTEMS

المملكة العربية السعودية
جامعة الإمام محمد بن سعود الإسلامية
كلية علوم الحاسب والمعلومات
قسم نظم المعلومات
بكالوريوس نظم المعلومات

SYLLABUS

IS 1130: Requirements Engineering

PREREQUISITE	*IS1100*		CREDIT HOURS	3

Instructor:
Contact information and office hours

Office No: 2088

Office Hours: Monday & Wednesday (12:30-14:10)

E-mail: aaalsahli@imamu.edu.sa

COURSE DESCRIPTION

This course discusses the processes, methods, techniques and tools that organizations use to manage their information systems requirement engineering. This course assumes that this topic within the broader information Systems context in the modern organization is a complex team-based activity, where various types of technologies (including software as well as complete systems) are an inherent part of the field. This course also acknowledges that this area involves both the use of resources from within the firm, as well as contracted from outside the organization.

	COURSE LEARNING OUTCOMES (CLOs)	Aligned SOs
1	**Knowledge and Understanding**	
1.1	*Describe the fundamental systems development life cycle.*	*1(I)*
1.2	*Demonstrate knowledge and understanding of issues related to requirements analysis.*	*1(I)*
1.3	*Describe methods for requirement elicitation and investigation.*	*1(I)*
2	**Skills :**	
2.1	*Model business requirements along with documentation.*	*2(I)*
2.2	*Validate the requirements using different techniques along with managing them.*	*2(I)*
3	**Values:**	
3.1	*Function effectively on teams to accomplish a common goal.*	*5(A)*

3.2	*Present a topic in a compelling manner.*	*3(P)*

TEACHING Strategies
Lectures
Self-learning

No	List of Topics	Contact Hours
1	*System Development Life Cycle*	6
2	*The essentials of requirements and analyst*	3
3	*Requirements elicitation and investigation*	3
4	*Analyzing the requirements*	6
5	*Documenting the requirements*	6
6	*Modeling the requirements*	3
7	*Validating the requirements*	3+3
8	*Requirements Management*	3+3
9	*Project Discussions*	3
Total		36+6(SL)

TEXT BOOK
Karl Wiegers and Joy Beatty: Software Requirements (3rd Edition) (Developer Best Practices) Microsoft Press, 2013.

REFERENCES
1.   *Dick, Jeremy, Hull, Elizabeth, Jackson, Ken. Requirements Engineering, Springer, 2017.*
2.   *Koelsch, George. Requirements Writing for System Engineering, 2016*
3.   *Axel van Lamsweerde: Requirements Engineering, from System Goals to UML Models to SoftwareSpecifications. John Wiley, 2007.*

Course Assessment Methods			
No	Assessment Method	Due Week	%Total Assessment
1	**Quiz**	4	10
2	**Midterm**	7	20
3	**Assignment**	9	10
4	**Group Project**	11	20
5	**Final Exam**	13	40