University of Basrah

College of Computer Science and Information Technology

Course Information	
Course Title	Software Engineering
Course Number	IS 301
Prerequisites	3 rd level
Credits	3 Hours
Teaching Method	3Hours of Lecture

Assessment Policy				
Assessment Type	Expected Due Date	Weight		
First Exam	To be announced by the dept.			
Second Exam	To be announced by the dept.			
Student activities (Quizzes)	To be announced later			
Lab	To be announced later			
Lab (final)	To be announced later			
Final Exam	To be announced later			

Learning Outcomes

The students study planning and design of software including development processes, life-cycle models, quality issues, requirements analysis, design techniques, testing, and project management.

Week	Topics	
	Team working	
	Software project planning	
	Software Methods	
	Software Requirements Gathering	
	Functional Modeling: Use Cases and Activity Diagrams	
	Structural Modeling: domain modeling	
	Structural Modeling: system classes	
	Behavioral modeling	
	Introduction to User Interface Design	
	System Design: Software design based on GRASP principles	
	System Design: Software System Architecture	
	System Implementation: Verification and validation of software systems	
	System Implementation: tools	

Textbooks
 Ian Sommerville, Software Engineering, 9th ed., 2011