Kingdom of Saudi Arabia Ministry of Higher Education Najran University College of Computer Science and Information Systems



المملكة العربية السعودية وزارة التعليم العالي جامعة نجران كلية علوم الحاسب ونظم المعلومات

College of Computer Science and Information Systems Course Code : 491CSS-4 Contact Hour : 4(0) Department of Computer Science Graduation Project 1 Prerequisite : 342CSS-3

Coordinator -

2. Course Description

Graduation project-1 will guide students to conduct a critical background study on their chosen topic. It will assist them on requirements gathering including analysis and synthesizes of gathered data and will aid students to perform feasibility study and functional and non- functional requirements to accumulate problems respective to their topic/environment .It will facilitate them to identify and apply appropriate methods/design to overcome those problems, identify the scope of their project in real world, will support students to critically evaluate proposed design using suitable methods and techniques. Studentwill develop communication skills through presentation and able to work individually as well as in a team. Students will be guided to maintain ethical issues, documentation formats, use of references and checking plagiarism. And finally students will produce a formal report describing their findings, contributions, and future development/implementation.

3. Course Learning Outcomes				
SL	By the end of this course, students should be able to:	Linkages to POs		
1.	Classify various CS related problems and project live cycle activities such as selecting, planning, analysis, design, implementation,	a(S),b(S),h(S)		
	testing, deployment, and maintenance			
2.	Conduct (Survey) an effective background study and be able to contrast and critique related work.	a(S)		
3.	Generate functional and non-functional requirements.	b(S)		
4.	Analyze the problem and develop an initial solution.	b(S)		
5.	Apply a multi-disciplinary approach to designing the project.	c(S),i(S),k(S)		
6.	Demonstrate his/ her ability to work independently and in a team.	d(S)		
7.	Demonstrate his/ her ability to communicate effectively.	f(S)		
8.	Prepare report for the project.	c(S),i(S),j(W)		

4. Learning Resources		
Text	Information Technology Project Management, Kathy Schwalbe, 7th edition, 2014.	
Text	Modern System Analysis & Design- Jeffrey Hpffer, Joey George, Joseph Valacich, 6th edition, Pearson	
Text	Benjamin Rosenzwing, Elena Silvestrova, Oracle PL/SQL by Example, Printice Hall, Latest Edition.	
Text	Sommerville, Software Engineering, Edition 8, 2007	
Text	Herbert Schildt The Complete Reference, JAVA 2, Latest Edition, McGraw Hill Publishing Company Ltd .	

5. Course Content : The list below provides a summary of the material that will be covered during the course						
Week	Topics	References Book /	Special Event	Tutorial Activities	Lab Activities	
		Others Source				

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1.	Class1: Review of graduation policy	GP Guideline		
	Class 2: Project Proposal (Vision	Supervisor proposal		
	document/feature list)	GP Guideline		
	Class 3: Basics of project management (Tasks,			
	plan, scope)			
	Class 4: Presentation tools and techniques			
2.	Class5: Requirements / Requirements Validation /	TBD		
	Functional Specification Document			
3.	Class 6: Use case Diagram, Use Case Description	TBD		
	/ Activity Diagram / Sequence Diagram			
	Class 7: Data Flow Diagram , System			
	Architecture			
4.	Class 8: Database/ ER Diagram	TBD		
	Class 8: UML			
5.	INTRODUCTION			
	Introduction; Problem Statment.; Purpose of this			
	Document; Project Structure; Modules (users,			
	database,); Scope; System Limitations;			
	Objectives;			
6.	INTRODUCTION		Presentation 1	
	Introduction; Problem Statment.; Purpose of this			
	Document; Project Structure; Modules (users,			
	database,); Scope; System Limitations;			
	Objectives;			
7.	BACKGROUND STUDY			
8.	METHOD OF INVESTEGATION AND			
	ANALYSIS			
	Functional and nonfunctional Requirements;			
	Project Methodology			
9.	SYSTEM DESIGN			
	Use case Diagram; Activity Diagram; Sequence			
	Diagrams; Database Entity Relationship Diagram;			
	Class Diagram; database Tables Structure			
10.	SYSTEM DESIGN			
	Use case Diagram; Activity Diagram; Sequence			
	Diagrams; Database Entity Relationship Diagram;			
	Class Diagram; database Tables Structure			
11.	CONCLUSION AND FUTURE WORK			
12.	Prepare final report	Presentation 2		
13.	Exam	Final presentation		

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6. Evaluation Scheme: The following list is the contribution of course components to the final grade for the course.			
Component	Weight (%)		
TasksAssignment (Participation, Tasks Evaluation)	26		
Presentations (Presentation 1 and Presentation 2)	12		
Reports (Report 1, Report 2, Final Report)	12		
Project Supervisor	50		
Total	100		

