

Course Specifications

Course Title:	Graduation Project 2
Course Code:	572CIS-3
Program:	Bachelor of Information Systems
Department:	Information Systems
College:	Computer Science and Information Systems
Institution:	Najran University



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A. Course Identification

1. Credit hours:	3(0,6,0)
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	Level 10 / Year 5
4. Pre-requisites for this course (if any): 571CIS-2	
5. Co-requisites for this course (if any):	

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	Blended	90	100%
3	E-learning		
4	Correspondence		
5	Other		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	
2	Laboratory/Studio	90
3	Tutorial	
4	Others (specify)	
	Total	90
Other Learning Hours*		
1	Study	10
2	Assignments	
3	Library	10
4	Projects/Research Essays/Theses	10
5	Others (specify)	0
	Total	30

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times



B. Course Objectives and Learning Outcomes

1. Course Description

Graduation project-2 will allow the students to use their acquired knowledge throughout the program to implement the design that proposed in graduation project-1. It will also assist students to perform testing, to apply appropriate error detection and corrections techniques and help students to evaluate their system/software. Students will be able to work individually as well as in a team. Students will be guided to maintain ethical issues, documentation formats, develop presentation and communication skills, use of references and checking plagiarism. Finally students will produce a runnable software/developed system in real time along with the final version of project report.

2. Course Main Objective

Student will demonstrate his ability to implement computer system designed in project 1 based on his learning during the previous levels and write proper report.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Apply core knowledge areas of computer science and information systems to implement the project	K1
2	Skills :	
2.1	Use modern tools and technologies to implement the project	S2
2.2	Evaluate the system using testing concepts and techniques	S4
3	Competence:	
3.1	Plan the development, testing and maintenance activities	C3
3.2	Demonstrate the ability to work independently and in a team	C1
3.3	Demonstrate the ability to communicate effectively	C2
3.4	Produce a complete report of the project work.	C2
3.5	Commit to professional, ethical, legal, security and social issues and responsibilities	C1

C. Course Content

No	List of Topics	Contact Hours
1	Review of Project 1 design; Review P2 sample work	1
2	Project 2 planning and schedule (break down work, phases, time table, etc..)	2
3	Programming language review, UI coding review	5
4	Coding (implementation) best practices (Database, middle tier, UI, etc..)	5
5	INTRODUCTION Introduction; P2 planning, link to P1 design; documentation	5
	IMPLEMENTATION Back end implementation; Testing; documentation	20
	IMPLEMENTATION	15



	Front end implementation; Testing ; documentation	
IMPLEMENTATION	Middle tier implementation; Testing ; documentation	20
CHAPTER TWO: Testing	Function and system testing; documentation	10
	CONCLUSION AND FUTURE WORK	2
Prepare final report	(Including Graduation Project 1)	5
Total		90

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
2.0	Skills		
2.1	Apply core knowledge areas of computer science and information systems to implement the project	Class Lectures, working with the team, reading about topic	Presentations, Reports
2.2	Use modern tools and technologies to implement the project	Class Lectures, working with the team, reading about topic	Presentations, Reports
2.3	Evaluate the system using testing concepts and techniques	Class Lectures, working with the team, reading about topic	Presentations, Reports
3.0	Competence		
3.1	Plan the development, testing and maintenance activities	Class Lectures, working with the team, reading about topic	Presentations, Reports
3.2	Demonstrate his/her ability to work independently and in a team	Class Lectures, working with the team, reading about topic	Presentations, Reports
3.3	Demonstrate his/her ability to communicate effectively	Class Lectures, working with the team, reading about topic	Presentations, Reports
3.4	Produce a complete report of the project work.	Reviews, Feedback	Final Report
3.5	Commit to professional, ethical, legal, security and social issues and responsibilities	Class Lectures, working with the team, reading about	Presentations, Reports



2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Presentation 1(By supervisor)	9	12
2	Presentation 2(By supervisor)	12	12
3	Final Presentation (By Examiners)	14	25
4	Final Report (By Examiners)	14	25
5	Task assignments (By supervisor)	all	26
6	Total		100

E. Student Academic Counseling and Support

Office hours of instructors. Also, every student has an academic advisor for counseling.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Towards a process management life-cycle model for graduation projects in computer engineering Murat YilmazID1, Faris Serdar Tasel1, Ulas Gulec1, Ugur Sopaoglu2,3. Available at University electronic library
Essential References Materials	To be determined by the instructor
Electronic Materials	To be determined by the instructor
Other Learning Materials	To be determined by the instructor

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom, and the instructor may ask for laboratory if needed.
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, and the instructor may ask for software if needed.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Depends on the project requirements



G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Focus group discussion with small groups of students.	Instructor	Direct
Extent of achievement of course learning outcomes	Instructor, Examiners	Direct
Extent of achievement of course learning outcomes	Students	Indirect
The topics covered	Instructor, Examiners	Direct
The free approach the of the course	Instructor, Examiners, Program leader, and department council	Direct

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	Session No. 10 (441-38-43300)
Date	17/02/2020

