







Course Title: Graduation Project 1

Course Code: 571CCS-2

Program: Bachelor of Science in Computer Science

Department: Department of Computer Science

College: Computer Science and Information Systems

Institution: Najran University

Version: 2.0

Last Revision Date: August 2022







Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment	
Methods	3
C. Course Content	5
D. Students Assessment Activities	6
E. Learning Resources and Facilities	6
F. Assessment of Course Quality	7
G. Specification Approval	7





A. General information about the course:

1. Course Identification

1. Credit hours: (2)

2 (0, 4, 1) [Theory, Lab, Tutorial]

2. Course type						
Α.	□University	□College	🛛 Departm	nent	□Track	□Others
В.	🛛 Required			Electi	ve	
3. Level/year at which this course is offered: (Level 9/Year 5)						
4. Course General 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 studies and functional and non-functional requirements to accumulate problems respective to their topic/environment. It will facilitate them to identify and apply appropriate methods/designs to overcome those problems, identify the scope of their project in the real world, and support students to critically evaluate the proposed design using suitable methods and techniques. Students will develop communication skills through presentation and be 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.

5. Pre-requirements for this course (if any):

451CCS-3 (Software Engineering)

6. Co-requisites for this course (if any):

None

7. Course Main Objective(s):

The student will demonstrate his ability to design computer systems based on his learning during the previous levels and write proper reports.

2. Teaching mode (mark all that apply)





No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	75	100%
2	E-learning		
	Hybrid		
3	Traditional classroom		
	• E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	60
3.	Field	
4.	Tutorial	15
5.	Others (specify)	
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understand	ing		
1.1				
1.2				
1.3				
2.0	Skills			
2.1	Classify various information system related problems and project live cycle activities such as selecting, planning, analysis, design, implementation, testing, deployment, and maintenance	S ₁ , S ₃	Class lectures, working with the team, reading about the topic	Presentations, Reports
2.2	Conduct (Survey) an effective background study	S_4	Class lectures, working with the team, reading about the topic	Presentations, Reports





Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	and be able to contrast and critique related work.			
2.3	Generate functional and non- functional requirements.	\mathbf{S}_1	Class lectures, working with the team, reading about the topic	Presentations, Reports
2.4	Analyze the problem and develop an initial solution.	S ₃ , S ₁	Class lectures, working with the team, reading about the topic	Presentations, Reports
2.5	Apply a multi-disciplinary approach to designing the project.	\mathbf{S}_2	Class lectures, working with the team, reading about the topic	Presentations, Reports
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate the ability to work independently and in a team.	C1,C3	Class lectures, working with the team, reading about the topic	Presentations, Reports
3.2	Demonstrate the ability to communicate effectively.	C1	Class lectures, working with the team, reading about the topic	Presentations, Reports
3.3	Prepare a report for the project	C2,C3	Class lectures, working with the team, reading about the topic, writing the report	Presentations, Reports

C. Course Content

No	List of Topics	Contact Hours
1.	List of Topics	1
2.	Class1: Review of graduation policy	1
3.	Class 2: Project Proposal (Vision document/feature list)	1
4.	Class 3: Basics of project management (Tasks, plan, scope)	1
5.	Class 4: Presentation tools and techniques	2
6.	Class 5: Requirements / Requirements Validation / Functional Specification Document	2
7.	Class 6: Use case Diagram, Use Case Description / Activity Diagram / Sequence Diagram	2
8.	Class 7: Data Flow Diagram, System Architecture	2
9.	Class 8: Database/ ER Diagram	1
10.	Class 9: UML	1





11.	INTRODUCTION Introduction; ProblemStatement.; Purpose of this Document; Project Structure; Modules (users, database,); Scope; System Limitations; Objectives;	6
12.	BACKGROUND STUDY	7
13	METHOD OF INVESTIGATION AND ANALYSIS Functional and Nonfunctional Requirements; Project Methodology	10
14	SYSTEM DESIGN Use case Diagrams; Activity Diagrams; Sequence Diagrams; Database Entity Relationship Diagrams; Class Diagrams; database table structure	20
15	CONCLUSION AND FUTURE WORK	3
	Total	75

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Presentation 1 (By supervisor)	9 th week	12
2.	Presentation 2 (By supervisor)	12 th week	12
3.	Final Presentation (By Examiners)	14 th week	25
4.	Final Report (By Examiners)	14 th week	25
5.	Task assignments (By supervisor)	Continues	26

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	To be determined by the instructor
Supportive References	To be determined by the instructor
Electronic Materials	To be determined by the instructor
Other Learning Materials	To be determined by the instructor

2. Required Facilities and equipment

Items	Resources
facilities	Classroom, and the instructor may ask for laboratory if needed.



Items	Resources
(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	
Technology equipment (projector, smart board, software)	Datashow, and the instructor may ask for software if needed.
Other equipment (depending on the nature of the specialty)	Depends on the project requirements

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Collecting students' suggestions to facilitate more during the class.	Students	Verbal discussion
Student's questionnaire once during the semester about course learning outcomes.	Students	Indirect Survey
Achievement percentage of course learning outcomes, direct evaluation using CLO assessment sheet	Course Instructor	Direct evaluation using CLO achievement calculation
Teaching strategies	Quality unit	Indirect
Assessment methods	Quality unit	Indirect
Instructor performance	Quality unit	Indirect
Course content	Quality unit	Indirect

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify) Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Computer Science Departmental Council
REFERENCE NO.	14440203-0185-00002
DATE	1st Sep, 2022

