هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title: Graduation Project (Phase-2
Course Code: ITEC 427
Program: Bachelor in Information Technology (BIT)
Department: Computer Science
College: Engineering and Computer Science
Institution: Jazan University
Version :3
Last Revision Date: 12 February 2024

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3 hours)					
2. Course type					
A.	☐University	☐College	☑Department	☐Track	☐Others
B.	☑Required		☐Elective		
3. Level/year at which this course is offered: (11th Level/ 4th Year-2nd semester)					
4. Course general Description:					
In the Capstone graduation project-phase 2 course, each group will continue developing the proposed systems they started in the graduation project-phase 1 course. It will also assist students to perform testing, to apply appropriate error detection and corrections techniques, and help students to evaluate their system/software. At the end of this course, students must deliver a project with a major component that has passed through the design, analysis, implementation, testing, and evaluation stages. Finally, students will produce runnable software/developed system in real time along with the final version of project report and orally presented to the examining committee.					
5. Pre-requirements for this course (if any): NIL					
6. Pre-requirements for this course (if any): NIL					
7. Course Main Objective(s):					
Having successfully completed this project, the student will be able to: • **Acquire knowledge to implement the design that proposed in graduation project phase 1.** • **Evaluate the system using testing concepts and techniques.** • **Interact, cooperate, and coordinate as a team.** • **Acquire oral and written communication skills.**					

. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	E-learning	0	0%
3	Hybrid • Traditional classroom • E-learning	0	0%

No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning	0	0%

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	52
2.	**Laboratory/Studio**	-
3.	**Field**	-
4.	**Tutorial**	-
5.	**Others (Mid, Pre and Final presentation)**	8
Total		52

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods	ABET Student Outcomes (SOs)
1.0	**Knowledge and understanding**				
1.1	Analyze and use current techniques, skills, and tools necessary for computing practices.	K1	Visual & Verbal [Meetings / Group Activity]	Midterm / Final / Pre-presentation discussion and reporting	SO-1 SO-6
2.0	**Skills**				
2.1	Apply core knowledge areas of computer science and information technology to implement the project	S3	Visual & Verbal[Meetings / Group Activity / Case Studies]	Midterm / Final / Pre-presentation discussion and reporting	SO-1 SO-2 SO-6
2.2	Develop creative and original solutions to problems of significant complexity and	S2	Visual & Verbal[Meetings / Group Activity]	Final / Pre-presentation discussion and reporting	SO-1 SO-2 SO-6

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods	ABET Student Outcomes (SOs)
	evaluate the system using testing concepts and techniques .				
2.3	Develop communication, teamwork and improve skills in development, testing, maintenance activities, writing reports and preparing presentations.	S5	Visual & Verbal [Meetings / Group Activity/ Presentations]	Midterm / Final / Pre-presentation discussion and reporting	SO-3 SO-4
3.0	**Values, autonomy, and responsibility**				
3.1	Commit to professional, ethical, legal, security and social issues and responsibilities throughout project work.	V1	Visual & Verbal [Meetings / Group Activity/ Presentations]	Midterm / Final / Pre-presentation discussion and reporting	SO-1 SO-2 SO-3 SO-5 SO-6

C. Course Content

No	List of Topics	Contact Hours
1.	**Review of graduation project phase 1 design**	3
2.	**Graduation project phase 2 planning and schedule**	3
3.	**Programming language and, UI coding review**	8
4.	**Implement the project**	16
5.	**Evaluate the system using testing concepts and techniques**	6
6.	**Produce a complete report of the project work.**	6
7.	**Revision and Pre-Presentation**	2
8.	**Final Presentation and Final Theory Exam**	8
Total		**52**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Mid Presentation	9th Week	20%
2.	Pre-Presentation	13th Week	40%
3.	Final Presentation	15th Week	40%

*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	Jeffery A. Hoffer, Joey, F. George and Joseph, S. Valacich**," Modern Systems Analysis and Design"**, Prentice Hall. 9th Edition, 2021, ISBN 0131454617.
Supportive References	Kathy Schwabe: Information Technology Project Management, 9th Edition, 2019, Publisher: Cengage Learning
Electronic Materials	Depends on the project
Other Learning Materials	Depends on the project

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Meeting Rooms/Classroom/labs
Technology equipment (projector, smart board, software)	• Projector • Smart Board • Blackboard (online learning platform)
Other equipment (depending on the nature of the specialty)	Depends on the project

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Faculty	Direct
Quality of learning resources	CEO / Track Leaders	Direct
The extent to which CLOs have	HOD / QAU	Direct

Assessment Areas/Issues	Assessor	Assessment Methods
been achieved		
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods(Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL
REFERENCE NO.	MEETING NO. 1, AGENDA NO. 2
DATE	13/09/2022