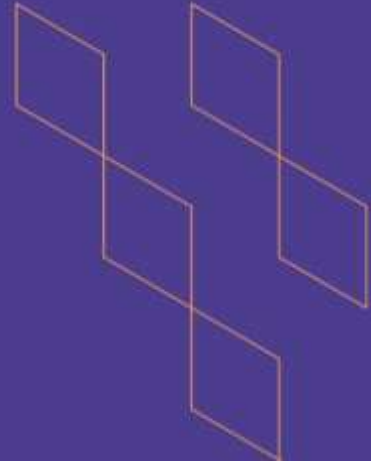T-104

2022

Course Specification

Course Specification

Course Title: **Applied Project**	
Course Code: **2451 CIS**	
Program: **Web and Mobile Application Development**	
Department: **NA**	
College: **Applied College**	
Institution: **King Khalid University**	
Version: **1**	
Last Revision Date: **7 August 2023**	

Table of Contents:

A. General information about the course:

Course Identification	
1. Credit hours:	4

2. Course type

a.	University ☐	College ☐	Department☐	Track☐	Others☒
b.	Required ☒	Elective☐			

3. Level/year at which this course is offered:	4th Level

4. Course general Description:

In this course, the student is expected to propose, analyze, design and develop a software system. The student will deliver oral presentations and written reports.

The Final Project allows students to combine and consolidate their learning from the overall Program and to address a cutting-edge real-world development challenge.

5. Pre-requirements for this course (if any): 1321 CIS

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

7. Course Main Objective(s):

- Allow students to demonstrate a wide range of the skills learned at the Computer Science Department to create projects.
- Encourage multidisciplinary research through the integration of material learned in a number of courses.
- Encourage teamwork. Improve students' communication skills through the production of a professional report and presentation.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	64	100
2.	E-learning		
3.	Hybrid - Traditional classroom - E-learning		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	

3.	Field		
4.	Tutorial		
5.	Others (specify) Project		64
	Total		64

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Recognize applicability of learned theories to find applications	k1 k2	Supervisor Instructions, Groupwork	Technical Report, Presentation
1.2	Know Software engineering concepts to develop application software.	k2	Supervisor Instructions, Groupwork	Technical Report, Presentation
2.0	Skills			
2.1	Analyze real world problem and find the respective solutions.	s3 s4	Supervisor Instructions, Groupwork	Technical Report, Presentation
2.2	Illustrate the ability to solve problems as a group and to manage time, resources to complete the task.	s1 s2	Supervisor Instructions, Groupwork	Technical Report, Presentation
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate effective performance and share the work with team	v3	Supervisor Instructions, Groupwork	Technical Report, Presentation
3.2	Expressive Communication in written and oral.	v3	Supervisor Instructions, Groupwork	Technical Report, Presentation

C. Course Content

No	List of Topics	Contact Hours
1.	Problem definition	4
2.	System Study/ Field Survey / Literature Survey	4
3.	Requirement Analysis	5
4.	Architectural design	5
5.	Data Flow Diagrams / Algorithm design/ Flow Chart design	4
6.	Detailed design / Comparison Design	5
7.	Code generation for various modules and algorithms	12

8.	Testing of modules and refinements / Starting of experimental analysis.	5
9.	Validation / consolidation of algorithms results	5
10.	Integrating the modules I formulation of research / Experimental findings	5
11.	Testing the software as one unit	5
12.	Writing professional documents and revised it	5
Total		64

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Weekly report to the supervisor	Weekly	60%
2.	External Supervisor Assessment + Final presentation	16th 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	A Guide to Project Management . Body of Knowledge . Third Edition- PMBOK , an American National Standard . ANSI / PMI 99-001-2004
Supportive References	- www.lms.kku.edu.sa - www.sei.cmu.edu - www.pmi.org
Electronic Materials	https://lms.kku.edu.sa/
Other Learning Materials	www.projectmanagement.com/ Lab Manuals

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Computer Lab
Technology equipment (projector, smart board, software)	Projector and smart board
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of students assessment	Course Teacher	Direct
Quality of learning resources	Program Supervisor, Quality Unit	Direct
The extent to which CLOs have been achieved	Course Teacher	Direct
Other	Course Teacher, Quality Unit	Direct

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	