



Course Specification

— (Bachelor)

Course Title: **Capstone Project I**

Course Code: **501598-3**

Program: **Bachelor of Computer Science**

Department: **Department of Computer Science**

College: **College of Computers and Information Technology**

Institution: **Taif University**

Version: **1**

Last Revision Date: **01-02-2024**



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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

2. Course type

A. University College Department Track Others
B. Required Elective

3. Level/year at which this course is offered: (9th level/5th Year)

4. Course general Description:

First part of a two-semester project. Student is involved in project definition, requirement elicitation and analysis, acquiring relevant technology skills, and development of proof of concept. Documentation, demonstration, and presentation are required.

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

501461-3

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

501435-3

7. Course Main Objective(s):

Students at the end of this course are able :

Allows students to extend their academic experience of leadership in to areas of personal interests

Provide students with the opportunity to apply the knowledge acquired during their studies to produce requirement and specifications documentation.

Demonstrate their ability to work as a team to accomplish the project

Demonstrate proficient practices, legal and ethical issues in solving real world problems with certain constraints.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	1	34%
2	Blended		
3	E-learning	1	33%
4	Correspondence	1	33%



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lecture	30
2.	Laboratory/Studio	
3.	Tutorial	
4.	Others (Discussion)	15
5.	Others (specify)	
Total		45

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	Understand project proposal, issues and technologies involved	K1	Brainstorming Tutorials	Direct Assessment Tool Writing Proposal
2.0	Skills			
2.1	Write a project proposal	S1	Brainstorming Tutorials	Direct Assessment Tool Writing Proposal
3.0	Values, autonomy, and responsibility			
3.1	Work in teams and do basic research	C3	Brainstorming Tutorials	Direct Assessment Tool Writing Proposal
3.2	Communicate and present project ideas effectively	C1	Brainstorming	Direct Assessment





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	through technical writings and oral presentation		g Tutorials	Tool Writing Proposal

C. Course Content

No	List of Topics	Contact Hours
1.	Project Proposal	6
2.	Literature review	9
3.	Requirements Analysis	3
4.	Methodology Development	9
5.	Prototype Design	12
Total		45

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Proposal submission	Week5	10%
2.	Report	Week 10	30%
3.	Presentation	Week 14	40%
4.	Work	Week 14	20%

*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	Projects in Computing and Information Systems - A Students Guide. 2nd Edition, Christian Dawson. ISBN-978-0-273-72131-4, ISBN-ISBN 978-0-273-72131-4
Supportive References	
Electronic Materials	Capstone Project Handbook, developed by CS department



Other Learning Materials N/A

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> A Lecture room appropriate for maximum 25 students with a personal computer, a data show and a smart board.
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> Video projector / data show
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Effectiveness of Students assessment	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Quality of learning resources	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> Students Faculty members Coordinator Council 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course





Assessment Areas/Issues	Assessor	Assessment Methods
	<ul style="list-style-type: none"> Curriculum Committees 	Coordinator <ul style="list-style-type: none"> Feedback from council Feedback from Curriculum Committees
Other		

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	CS council
REFERENCE NO.	Meeting #11
DATE	07/03/2024

