

Course Title:	Supervised project I
Course Code:	CSE161
Program:	Master Degree In Computer Engineering
Department:	Computer Engineering
Course coordinator:	Dr. DHEKRA CHERMITI
Institution:	Private Higher School of Engineers of Gafsa (ESIP)

A. Course Identification

1. Credit hours: 3 (0-0-0-3)	
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: 1.1/3	
4. Pre-requisites for this course (if any):	
5. Co-requisites for this course (if any): Basic Embedded System, Basic Algorithms, Programming	

1. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Self-study	Total workload
1	Traditional classroom	16.5	39
2	Blended		
3	E-learning		
4	Distance learning		
5	Other (Project)	22.5		

2. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	-
2	Laboratory/Studio	-
3	Tutorial	-
4	Others (project)	22.5
	Total	22.5

B. Course Objectives and Learning Outcomes

Course Description

This course significantly develops students' programming skills by practically applying object-oriented programming concepts through a mini application project. Students will integrate theoretical knowledge into practical solutions, effectively addressing programming challenges and mastering documentation and design methodologies.

Course Main Objective

- Enable students to apply object-oriented programming concepts in developing a practical application.
- Provide students with hands-on experience in implementing object-oriented solutions to programming problems.
- Equip students with skills for professional documentation of programming projects.

1. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and understanding	
1.1	✓ Learn and apply the concepts of object-oriented programming to carry out a mini application project.	PLO.K1
2	Skills	
2.1	✓ Implement an object-oriented programming code to create a mini application project and integrate the theoretical knowledge acquired in programming.	PLO.S1
2.5	✓ Master how to produce documentation for a programming project. and manage the design problems related to programming	PLO.S5

C. Course Content

No	List of Topics	Contact Hours
1	Project 1. Block Chain	-
2	Project 2. Transport Company	-
3	Project 3. Public Transport	-
5	Others (Web Scraping Product Analysis, Treatment time alarm, Task manager)	
Total		22.5

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 and Understanding		
PLOK.1	✓ Learn and apply the concepts of object-oriented programming to carry out a mini application project.	- Class discussions - Assignments - Projects	Assignments, Report, presentation
2.0	Skills		
PLOS.1	✓ Implement an object-oriented programming code to create a mini application project and integrate the theoretical knowledge acquired in programming	- Class discussions - Assignments - Projects	Assignments, Quizzes, report presentation,
PLO.S5	✓ Master how to produce documentation for a programming project. and manage the design problems related to programming		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Work carried	Weekly	20%
2	Prototype realization	Random	30%
3	Final Evaluation	16	50%

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- 1- Office hours
- 2- Blackboard interface

F. Learning Resources and Facilities

1. Facilities Required

Item	Resources
Accommodation	Classroom board Computer lab with the necessary software Internet access
Technology Resources	Data projector

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment.	Students, course coordinator, Alumni, Employers	Direct/Indirect
Extent of achievement of course learning outcomes.	Faculty, Program Leaders, quality department	Direct
Quality of Learning resources	Faculty, Program Leaders,	Direct, Indirect
Teaching and learning quality and effectiveness.	Students, Faculty Program Leaders,	Direct, Indirect

H. Specification Approval Data

Council / Committee	Computer Engineering Council
Date	11/09/2023

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