هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	Final Year Project I
Course Code:	191MMET
Program:	MMET
Department:	Mechanical Engineering Technology
College:	College of Applied Industrial Technology
Institution:	Jazan University
Version:	**V2022**
Last Revision Date:	1st of January 2023

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	1 hours				
2. Course type					
a.	University ☐	College ☐	Department ☑	Track ☐	Others ☐
b.	Required ☑	Elective ☐			
3. Level/year at which this course is offered:	Sixth Level / Second Year				

4. Course general Description

Final Year Project I (FYP-I) is a **capstone** compulsory final year course which students of CAIT must take at the end of their academic Program to complete the requirements of their Associate Diploma. The concept of FYP-I emphasizes practical work more than theoretical studies, it helps the students to understand the theory of operation of an application and disassemble it and identify the names and functions of its main components. FYP-I is an opportunity for final year technical students to demonstrate their capabilities in applying the knowledge acquired during their academic program. It enables the students to experience the main components of a real application.

FYP-I course is a 1-credit unit course and is taken by the students who are about to graduate (during the 3rd Semester). Students who undergo FYP-I course must have completed at least 20 credit units and passed Industrial Safety and Environment (111CBS), they spend the whole semester (~10 weeks) in the workshop to fulfill practically the proposal provided by their instructor/s. The practical work should be in their relevant field of specialization. At least one instructor should be assigned for every five students; here the instructor/s orients the students through their practical work in the workshop.

At the end of FYP-I, students are required to submit a final report and give a presentation about their experience and knowledge gained. The presentation is equivalent to oral exam and is held on front of a committee consisting of three evaluators.

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

20 credit units

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

None

7. Course Main Objective(s)

The main purpose of the course is applying all basic principles of mechanical maintenance engineering technology while students disassemble a real product an didentify the names and functions of its main components. Students learn to work in groups, select suitable engineering application, plan activities, and write about the project with presentation.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	--	--
2.	E-learning	--	--
3.	Hybrid • Traditional classroom • E-learning	24	100
4.	Distance learning	--	--

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	24
3.	Field	--
4.	Tutorial	--
5.	Others (specify)	--
	Total	24

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 different engineering systems/components with definition and function	K1 (2)	Active learning	Report
2.0	Skills			
2.1	Interpret engineering systems and processes through performing standard tests to collect data	S1(2), S4(3)	Active learning	Hands-on activities in the workshop and lab
2.2	Apply common sense judgments to evaluate system performance	S2(3)	Active learning	Hands-on activities in the workshop and lab
2.3	Communicate effectively ،both orally, and editorially, within engineering community and society at large	S3(1)	Active learning	Comprehensive Report
3.0	Values, autonomy, and responsibility			
3.1	Capture essential information with execution in timeliness	V1(3), V2(2)	Active learning	Group Discussion

C. Course Content

No	List of Topics	Contact Hours
1	Literature review and free readings about topics to select suitable application	4
2	Discussing all the ideas with the supervisors, and writing the time line according to the application selected	2

3	Health and safety, and Tools and equipment	2
4	Disassembling/assembling/maintaining the selected applications with report writing step by step	12
5	Finalizing the report writing of the FYP and preparing Power Point Presentation	2
6	Revision through presentation trial	2
Total		24

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Weekly Report (average 3.5 marks each)	Week 2 till Week 10	20
2.	Hands on Activities in the Lab	Week 4 till Week 10	40
3.	Final Report	As scheduled	25
4.	Final Presentation	As scheduled	15

*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	• Not utilized
Supportive References	• Lab Policy
Electronic Materials	• Not utilized
Other Learning Materials	• Not utilized

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Labs and workshops equipped with necessary equipment for practical work with • Necessary tools • Internet, WIFI
Technology equipment (projector, smart board, software)	• Computer with data show.
Other equipment (depending on the nature of the specialty)	Not utilized

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	CES (Indirect)
Effectiveness of students assessment	QAU/HoD	Direct
Quality of learning resources	Course Instructor	Indirect
The extent to which CLOs have been achieved	QAU/HoD	Random re-checking of evaluated answer sheets (Direct)
Other		

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

Assessment Methods: (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	