هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	Final Year Project II
Course Code:	292CHET
Program:	CHET
Department:	Chemical 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:	2 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 II (FYP-II) 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 Intermediate Diploma. The concept of FYP-II emphasizes practical work more than theoretical studies. FYP-II 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 similar and/or real situation on how projects are carried out in the industry.

FYP-II course is a 2-credit unit course and is taken by the students who are about to graduate (during the 6th Semester). Students who undergo FYP-II course must have completed at least 40 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-II, 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):

40 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 operational chemical engineering technology to the process design of a chosen chemical equipment. Students learn to work in groups, select suitable engineering ideas, plan activities, transform ideas into product, write and present about the project

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	48	100
4.	Distance learning	--	--

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	48
3.	Field	--
4.	Tutorial	--
5.	Others (specify)	--
	Total	48

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	Relate the courses studied in the college to real world application	K1 (2)	Active learning	Report
2.0	Skills			
2.1	Show practical skills through real applications according to written or verbal instructions	S1(2), S4(3)	Active learning	Hands-on activities in the workshop and lab
2.2	apply rules and principles to define the performance of engineering systems and processes	S2(2)	Active learning	Hands-on activities in the workshop and lab
2.3	Write a comprehensive report according to predetermined guidelines summarizing the project in all its stages	S3(3)	Active learning	Comprehensive Report
2.4	Convey the range of experience obtained and the skills learned through the delivery of an oral presentation	S3(2)	Active learning	Presentation
3.0	Values, autonomy, and responsibility			
3.1	Function effectively in a multidisciplinary and diverse team	V1(1)	Active learning	Group Discussion
3.2	Access multiple sources of information, capture essential information, and distinguish it from extraneous data	V2(2)	Active learning	Group Discussion

C. Course Content

No	List of Topics	Contact Hours
1	Literature review and free readings about several maintenance topics to select the application	8
2	Discussing all the ideas with the supervisors, and writing the time line according to the application selected	4
3	Health and safety, and Tools and equipment	4
4	Disassembling/assembling/maintaining the selected applications with report writing step by step	24
5	Finalizing the report writing of the FYP and preparing Power Point Presentation	4
6	Revision through presentation trial	4
Total		48

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.	Comprehensive 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	