



Course Specification

(Bachelor)

Course Title: **Practical Training**

Course Code: **CENX 497**

Program: **B.S. in Computer Engineering**

Department: **Department of Computer Engineering**

College: **College of Computer and Information Sciences**

Institution: **King Saud University**

Version: *Course Specification Version Number*

Last Revision Date: *Pick Revision Date.*

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A. General information about the course:

1. 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: (Level 8, Year 4)

4. Course general Description:

During CEN999 course, the students are requested to achieve different activities outside the campus doing work related to their field of study while enrolled as students. Typically, in these activities, the student is supervised by someone on site who is usually not among the KSU/college/department faculty. The practical training course is a great experience that provides students with hands-on, real world experience in a work setting. This is mandatory internship program for all students in the computer engineering department (CCIS, KSU). The course is designed to provide students opportunity to apply their academic education with work experience. A continuous period of 300 hours spent in company with purpose of acquiring practical experience.

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

120 Credit hours completed

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

7. Course Main Objective(s):

The purpose for these off-campus activities varies by department and discipline. The student should demonstrate knowledge or skills acquired in the major, to relate theory to practice, to apply principles to jobs related to the major, or other outcomes expected in the program.

2. 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		
4	Distance learning		





No	Mode of Instruction	Contact Hours	Percentage
5	Other	Two months full-time work (no less than 300 hours)	100%

3. Contact Hours (based on the academic semester)

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

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	Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	1		
1.2	Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	4		
2.0	Skills			





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.1	Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	2		
2.2	Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	5		
2.3	Acquire and apply new knowledge as needed, using appropriate learning strategies.	7		
3.0	Values, autonomy, and responsibility			
3.1	Communicate effectively with a range of audiences	3		
3.2	Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	6		

C. Course Content

No	List of Topics	Contact Hours
1.	Recognize engineering concepts (components, models) acquired during its study which exist in its field experience.	
2.	Use systematic observation for gathering data to develop a technical report	
3.	Enable the student to demonstrate knowledge or skills acquired in the major, to relate theory to practice, to apply principles to jobs related to the major, or other outcomes expected in the program.	





4.	Demonstrate their attitudes and knowledge as a foundation for understanding their capability to work in a professional environment	
5.	Demonstrate well self-initiative to tackle study pressures.	
6.	Establish and maintain effective working relationships with those contacted in the course of work.	
7.	Analyse problems and come-up with appropriate solutions	
8.	Communicate clearly and concisely, both orally and in writing.	
Total		300

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Field experience advisor (evaluation form)		Pass or Fail
2.	Department advisor (Report / Presentation)		Pass or Fail

*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	
Supportive References	
Electronic Materials	https://lms.ksu.edu.sa
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Field experience location including demonstration rooms and labs.
Technology equipment (projector, smart board, software)	Specific to the field experience location.
Other equipment (depending on the nature of the specialty)	Network department, data center, maintenance section etc...



F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Department Council	Course reports are evaluated by the Department Council.
Effectiveness of Students assessment	Faculty-Peer Review	Final examination is moderated.
Quality of learning resources	Students	Indirect – Edu-gate survey.
The extent to which CLOs have been achieved	Students	Attainment level of every CLO is measured directly.
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	