



Course Specification

— (Bachelor)

Course Title: **Special Topics in Computer Engineering**

Course Code: **CENX 491**

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: (3 hours)

2. Course type

A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
B. ☐ Required ☒ Elective

3. Level/year at which this course is offered: (Level 8)

4. Course general Description:

This is an elective course offering special topics in computer engineering that may differ from one semester to the other depending on students' need.

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

Level 8 with specific courses depending on the offered topic

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

7. Course Main Objective(s):

The main objective of this elective course is to respond to special requirements in computer engineering such as special emerging development in the field, or special topics needed by the job market.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hours per week	100%
2	E-learning		
3	Hybrid - Traditional classroom - E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
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1.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
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	Formulate and solve problems in the offered topics.	1		
1.2	Make informed judgment concerned with the issues of the offered topics and based on ethical and professional responsibilities	1		
2.0	Skills			
2.1	Use engineering tools in analyzing and solving problems associated with the offered topics.	2		
2.2	Apply acquired knowledge in real life situations.	2		
3.0	Values, autonomy, and responsibility			
3.1	Develop critical views and draw conclusions.	6		

C. Course Content

No	List of Topics	Contact Hours
1.	Course content will be specified according to the offered topics.	45
Total		45



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Examination (1)	6	20%
2.	Midterm Examination (2)	12	20%
3.	Homework Assignments	Weekly	20%
4.	Final Exam	End	40%

*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	Will be specified according to the offered topics.
Supportive References	Will be specified according to the offered topics.
Electronic Materials	Will be specified according to the offered topics.
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room with number of seats enough to accommodate enrolled students.
Technology equipment (projector, smart board, software)	Overhead projector with required software to facilitate presentations on smart board.
Other equipment (depending on the nature of the specialty)	

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	

