



# Course Specification

## (Bachelor)

Course Title: **Graduation Project 1**

Course Code: **SE 496**

Program: **Surveying Engineering Program**

Department: **Civil Engineering Department**

College: **College of Engineering**

Institution: **King Saud University**

Version: **2**

Last Revision Date: **1/12/2021**



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## A. General information about the course:

### 1. 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: ( 9<sup>th</sup> Level)

#### 4. Course general Description:

The student must accomplish a 2-semester-project in any major fields of surveying (the project must include field work &/or field data in addition to associated computations & assessment); an integrated report detailing each step of the project must be provided by the student & approved by the project supervisor & the examiners after presentation of the project.

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

Successful completion of 129 credit hours and passing all courses in levels 1-7

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

#### 7. Course Main Objective(s):

Introduce student to presenting a project proposal, looking into literature review, propose a problem solution, verify its effectiveness, improve oral and report presentation skills.

### 2. Teaching mode (mark all that apply) – This depends on the nature of the project.

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> <li>Traditional classroom</li> <li>E-learning</li> </ul>		
4	Distance learning		





### 3. Contact Hours (based on the advice of the supervisor)

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				
1.2				
2.0	Skills			
2.1	Discuss with supervisor selection of a problem of clear, justified and significant objectives that engages various SE branches (capstone project)	S2	Discussion with supervisor	Supervisor evaluation and Mid and Final Exams
2.3	Present and orally defend report including literature review and appropriate plan to accomplish project stated objectives	S3	Training on oral and presentation report writing	Oral discussion and Report evaluation
3.0	Values, autonomy, and responsibility			
3.1	Design and plan procedures to collect data using appropriate surveying engineering techniques	V5	Discussion	Mid and Final Exams
3.2				
...				



## C. Course Content

No	List of Topics	Contact Hours
1.	Introductory lectures about cap stone project requirements, tools and procedure	6
2.	Selection of a surveying engineering problem that can be tackled through more than two survey disciplines. Discussion with the supervisor to agree on approval of the project problem	4
3.	Search for relevant literature and writing introduction chapter including objective of the project, background, literature review and plan to accomplish the project,	6
4.	Planning and designing approaches to collect required data. If field data is needed students will be trained on the appropriate surveying instrumentation and techniques.	10
5.	Writing Report and oral presentation training	4
Total		30

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Mid Exam	7 <sup>th</sup> week	20%
2.	Final Exam	13 <sup>th</sup> Week	30%
3.	Supervisor evaluation	Through semester	50%
...			

\*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	Published books and articles related to the project subject from net
Supportive References	
Electronic Materials	
Other Learning Materials	

### 2. Required Facilities and equipment

Items	Resources
facilities	





Items	Resources
(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	
<b>Technology equipment</b> (projector, smart board, software)	
<b>Other equipment</b> (depending on the nature of the specialty)	Surveying Equipment depending on the nature of the project.

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Student Faculty	Course evaluation at the end of the course. (Indirect)- through Course Evaluation Survey-OBE Assessment of the student performance in the course. (Indirect
Effectiveness of Students assessment	Program Leader & Peer Reviewers Faculty Student	Periodic self- assessment of the exam by the vice deanship of quality and development to evaluate the appropriateness of the final exams. (Indirect Direct Assessment through OBE Indirect assessment through-Course Evaluation Survey-OBE
Quality of learning resources	Student Faculty	Students feedback on the effectiveness of learning resources (indirect) through Survey in OBE Indirect assessment, through faculty survey
The extent to which CLOs have been achieved	Faculty Student	Assessment of student grades in achieving the course leaning outcomes and Program Learning Outcomes (direct) through OBE Indirect assessment through Course Learning Outcome Survey in OBE
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	CIVIL ENGINEERING DEPARTMENT (CED) COUNCIL
<b>REFERENCE NO.</b>	8TH CED COUNCIL MEETING OF 1ST SEMESTER 1443H
<b>DATE</b>	1/12/2021

