



**HASAN KALYONCU UNIVERSITY**  
**Faculty of Engineering**  
**Course Description Form**

<b>COURSE:</b> Surveying					
<b>CODE:</b> CE262		<b>SEMESTER:</b> SPRING			
<b>LANGUAGE:</b> ENGLISH		<b>TYPE:</b> COMPULSORY			
<b>PRE-REQUISITES:</b> - <b>CO-REQUISITES:</b> -		<b>THEORY</b>	<b>PRACTICAL</b>	<b>CREDIT</b>	<b>ECTS</b>
<b>WEEKLY HOURS:</b> 4		2	2	3	4

**CONTENT OF THE COURSE:**

Drawing: drawing maps with tachometric measurements, enlarging and reducing maps and plans, units of measurement: introduction of angle, length, area and volume units, conversion between angle units, errors: definition of error, classification of errors, correction, error limit, accuracy criteria, simple Measuring tools: jalon, jalon stand, steel tape measure, prism etc. Introduction and use of acid measuring instruments, simple measurements: application of points and lines with simple measuring instruments, length measurements: direct measurement or indirect calculation of lengths, simple pickup methods: definition of pickup, simple pickup methods and application, area calculations.

**OBJECTIVE OF THE COURSE:**

To gain the basic concepts of topography, to define the importance and place of civil engineering, to teach and apply the necessary information for the solution of engineering problems involving topography.

**WEEKLY SCHEDULE**

<b>Week</b>	<b>Topics</b>
1	Topography, map, plan concepts, shape and dimensions of the earth
2	Units of measure, length units and conversions
3	Angle measurement units and transformations, area measurement units
4	Vertical and polar coordinate systems, transformations between
5	Height measurements
6	Application of height measurements
7	Error calculations
8	Midterm Week
9	Error calculations and application
10	Length and angle measurement application
11	Length and angle measurement application
12	Land surveying methods
13	Land surveying methods
14	An overview

**TEXTBOOK:** Lecture Notes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
<b>LO1</b>	3	0	0	0	0	0	0	0	0	0	0
<b>LO2</b>	3	0	0	0	0	3	0	0	0	0	0
<b>LO3</b>	3	0	3	3	3	3	0	0	0	0	0
<b>LO4</b>	3	0	3	3	3	3	0	0	0	0	0
<b>LO5</b>	3	0	3	3	3	3	0	0	0	0	0
<b>LO6</b>	3	0	3	3	3	3	0	0	0	0	0
<b>LO7</b>	3	0	0	0	0	3	0	0	0	0	0
PO: Program Outcomes   LO: Learning Outcomes Values: 0: None   1: Low   2: Medium   3: High											

<b>INSTRUCTOR(S):</b>	Inst.Nurullah AKBULUT
<b>FORM PREPARATION DATE:</b>	22.05.2019

<b>LEARNING OUTCOMES OF THE COURSE:</b>
<p><b>LO1:</b> Learns the concepts of topography, map and plan.  <b>LO2:</b> Understand the measurement units and conversions between them.  <b>LO3:</b> Learns to measure length.  <b>LO4:</b> Learns angle measurement  <b>LO5:</b> Makes coordinate calculations.  <b>LO6:</b> Makes the height measurements and calculations.  <b>LO7:</b> Learns to calculate measurement errors.</p>

<p><b>CONTRIBUTION OF THE COURSE TOWARDS PROVIDING VOCATIONAL EDUCATION:</b> With this course, students recognize the tools used in measuring and acquire skills such as extracting an aspect section, removing a peer elevation curve and reading. They also gain field and application skills by learning to make angular measurements.</p>
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