

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO Department of Civil Engineering

LESSON PLAN

COURSE TITLE: Surveying-II COURSE CODE: CE202 CREDIT HOURS: 03 HOURS: 48

COURSE INSTRUCTER: Engr. Azizullah Jamali (C+D)/Engr. Maroosha Larik (A+B)

Batch: 21CE Semester: 4th Semester Starting Date:03-07-2023 Semester Suspension Date:20-10-2023

COURSE LEARNING OUTCOMES:

Setting out works

No. of lectures: 23

- Setting out the buildings, roads, culverts, bridges.

CLO	Description	Taxonomy level	PLO
1	APPLY different survey techniques for indirect linear measurements in horizontal and vertical plane, and measurements in water bodies and larger areas.	C3	2
2	USE data for setting out of curves on highways and setting out works for different structures.	C3	3

Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
 Theodolite Traversing Adjustment of transit theodolite traversing with theodolite Traverse computations, Closing error and its adjustment Computation of Omitted measurements. Tachometric Surveying System of tachometry Principles and field procedures of tachometry Use of tachometry for traversing. Serial No. of lectures: 1-15 (Total Classes: 15)	1	30	• Class Lecture • Discussion	• Class Test -I (05) • Assignment -I (05) • Mid semester Exam (20)
 Highway Curves Introduction and Types of curves Simple circular curves Compound curves Reverse curves Transition curves Vertical curves Computation and setting out of curves by different methods. 	2	46	• Class Lecture • Discussion	• Assignment -1 (05) • Class Test 2 • (05) • Final Exam

(36)

•	Trigonometric Levelling				
-	Determination of Reduced levels of elevated objects when the base is accessible and inaccessible.				
•	Hydrographic Surveying				
-	Hydrographic Surveying and its applications				
-	Sounding and instruments used in soundings			• Class Lecture	
•	Photogrammetry	1	24		• Final Exam
-	Photographic surveying			 Discussion 	(24)
-	Terrestrial and Arial surveying				
•	Remote Sensing and GPS				
-	Introduction to remote sensing and GPS				
-	Use of GPS in the field of Survey.				
	No. of lectures: 10				

ASSESSMENT DETAILS

S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
			Assignment	2	1,2
1	Class Test/Assignment/Quiz	20	Class Test	2	1,2
2	Mid Semester Exam	20	1		1
3	Final Semester Exam	60	1		1, 2

Prepared by: Engr. Azizullah Jamali

Signature:

Dated: 12-04-2023

Reviewed by: Curriculum Review Committee

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Signature:

Dated: 18-04-2023

Approved by: Chairman, CED

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Signature:

Dated: 18-04-2023