

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO Department of Civil Engineering

LESSON PLAN

COURSE TITLE: Geo-Informatics CO			COURSE COD	E: CE203	CREDIT HOURS: 02	MININ HOUR	$\begin{array}{c} \text{MUM CONTACT} \\ \text{S:} 32 \end{array}$		
COURSE INSTRUCTERS: Dr. Muhammad Yousif Mangi (A+B+C)									
Batch: 23CE Semester: 4 th Semester Starting			ng Date: 09-1 2	2-2024	Semester Suspension Date: 18-04-2025				
COURSE LEARNING OUTCOMES:									
CLO	Description				Taxonomy Level		PLO		
1	1 UNDERSTAND fundamentals and controls informatics system and use of modern instrume			f geo ations	C2		5		
2	2 APPLY GIS data and Remote sensing tech analysis and modelling			s for C3			5		
3	3 CONDUCT various geo informatics tasks using 3 modern tools and software and to review engineering information using GIS / Remote sensing			using eering	P4 5		5		
LESSON (CONTENTS AND ASSOC	IATED CLO(s))	Γ	1				
Contents		CLO No.	Marks Assigned	Deliver Method	y S	Assessment Methods (Marks)			
• I () I V () () () () () () () () () () () () ()	ntroduction to G Coordinate System Horizontal Control Understanding Vertic World Geodimetric Sys Control, Earth's Gravita Navigational Satellites Systems (GLONASS Galileo), Fundamentals of GPS, System Characteristics, Diffe (DGPS).	eo-Informatic ns, Glob I System cal Control tem of Vertica tional Model s, Positionin S, GPS s and workin Operation GP	s. al s, s, al ng 1 & S	15	• Class Lectu • Discussion	re	 Assignment- I (04) Class Test-I (04) Mid Semester Exam (07) 		
No. of Lectures: 10									
F F F S U F No. of L	Fundamentals of GIS I Earth model, Map ntroduction to spatial nodeling tools and Ar on with software. Standard Database Understanding GIS dat Raster Formats, Spatial sectures: 14	Data Handling projection analysis. GI nalysis. Hands Format ta. Vector an Statistics.	g, s, S s- 2 s, ad	25	 Class Lectu Discussion 	re	 Assignment- II (04) Class Test-II (03) Mid Semester Exam (08) Final Exam (10) 		

No. of Lectures: 08

S. No.	ASSI Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test(s) /Assignment (s)	15	Class Test(s)	02	1 & 2
		15	Assignment(s)	02	1 & 2
2	Mid Semester Exam	15	1		1 & 2
3	Final Semester Exam	20	1		2 & 3

Prepared by: Dr. Muhammad Yousif Mangi	Reviewed by: Curriculum Review Committee	Approved by: Chairman, CED		
Signature:	Signature: Dated: 20-12-2024	Signature:		
Dated: 05-12-2024		Dated: 20-12-2024		