

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO Department of Civil Engineering

LESSON PLAN

COURSE TITLE:			COURSE CODE:	CREDIT	MINIMUM CONTACT			
Hydrology CET301 HOURS: 01					HOURS: 16			
COURSE	INSTRUCTE	R: Prof. Dr. A	Ashfaque A. Memon / Hafiz Us	ama Imad				
			Semester Starting Date: 09-12-2024	Semester Susp 18-04-2025	Suspension Date: 25			
COURSE	LEARNING	OUTCOME	S:					
CLO	Description				Taxonomy	PLO		
	Descriptio	911			Level	PLO		
	ANALYZI	E the occurrent	nce, movement and distributions with the ground surface	on of water in the	Level C4	4		

Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
 Introduction Hydrology, Hydrologic cycle, Hydrologic equation. Hydrologic Processes and their Computation Wind, Temperature, Relative humidity, Solar radiation, Precipitation, Evaporation, Transpiration, Evapotranspiration, Runoff and its measurement/estimation, Data networks, Telemetry system and Remote sensing, Analysis and application of hydrograph, Unit hydrograph. Floods- Estimation, Routing and Control Size of floods, Estimation of peak flood, Flood frequency studies, Introduction to Reservoir routing and Channel routing, Methods of flood control, Flood forecasting and warning. 	1	34	 Class Lectures Discussion Example practice 	 Class Test-I (4) Assignment-I (5) Mid semester Exam (15) Final Exam (10)
 No of Lectures: 11 Groundwater, Well Hydraulics and Tube Wells Basic terminology, Types of aquifers, Yield of a well, Well losses, Specific capacity of well, Interference among wells. Types and Parts of tube well, Tube well construction, Design of tube well for irrigation purposes, Comparison of Tube well irrigation and Canal irrigation. No of Lectures: 05 	2	16	 Class Lectures Discussion Example practice 	 Class test-II (3) Assignment-I (3) Final Exam (10)

ASSESSMENT DETAILS							
S. No.	Assessment Activities		Marks	Activiti	es	CLO(s) to be assessed	
1	Class Test/Assignment/Projec		Class tests	2	1,2		
-	Presentation/Quiz/Field Report		50	Assignments	2	1,2	
2	Mid Semester Exam		30	1		1	
3	Final Semester Exam		40	1		1, 2	
Signature	by: Dr. Ashfaque A. Memon	Signature: Dated: 20-1	P.	n Review Committee	Approved by: Signature: Dated: 20-12-	2024	