

Discipline	Semester	From date: <u>10.03.22</u> To date: <u>10.06.22</u>	Teaching Aid
Subject:	No. of days/ per week <u>05 days</u> :	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
		<u>PART-A:</u>	
1	<u>10.03.22</u> to <u>12.03.22</u> (02 period)	<u>Ch-1:- Hydraulics:-</u> 1.1. Properties of fluid. 1.2. Pressure & its measurement 1.3. Pressure exerted on an immersed surface:- Total pressure resultant pressure, expression for total pressure exerted on horizontal & vertical surface.	
	<u>14.03.22</u> to <u>19.03.22</u> (04 period)	<u>Ch-2:- Kinematics of fluid flow:-</u>	
3	<u>21.03.22</u> to <u>26.03.22</u> (05 period)	2.1. Basic equation of fluid flow and their application: Rate of discharge, equation of continuity etc.	
	<u>28.03.2022</u> to <u>02.04.22</u> (05 period)	2.2. Flow over Notches & weirs:- Types of Notches & weirs, discharge through different types of notches & weirs - their application.	
5	<u>04.04.22</u> to <u>09.04.22</u> (05 period)	2.3. Types of Flow through the pipes:- Uniform & non-uniform. 2.4. Losses of head of a liquid flowing through pipes: Different type of major & minor losses. Darcy's equation.	
	<u>11.04.22</u> to <u>16.04.2022</u> (05 period)	2.5: Flow through the open channels: Types of channel section - rectangular, trapezoidal & circular, Chezy's & Manning's Equation, Best's	
7	<u>18.04.22</u> to <u>23.04.22</u> (06 period)	<u>Ch-3:- PUMPS:-</u> 3.1. Types of pumps. 3.2. Centrifugal pumps. 3.3. Reciprocating pumps.	

Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
		<u>PART-B (Irrigation Engg)</u>	
8	25.04.22		
	to 30.04.22 (06 period)	Ch-1:- Hydrology:- Hydrology Cycle, 1-2. Rainfall:- types, intensity, hyetograph.	
9	02.05.22	1-3. Estimation of rainfall, rain gauge, its types.	
	to 07.05.22 (05 period)	1-4. Concept of catchment area, types, run-off, estimation of Flood discharge by Dicken's & Ryve's formula.	
10	09.05.22		
	to 14.05.22 (06 period)	Ch-2:- Water Requirement of Crops:- Definition of irrigation, necessity, benefits, → Crop season	
11	17.05.22	→ Duty, Delta & base period their relationship.	
	to 21.05.22 (05 period)	→ Gross command area, → Culturable command area, Intensity of irrigation.	
12	23.05.22	Ch-3:- Flow Irrigation:-	
	to 28.05.22 (05 period)	3-1. Canal Irrigation, types of canal, loss of water in canal. 3-2. Perennial Irrigation 3-3. Different components of Irrigation	
13	31.05.22	Ch-4:- Water Logging and Drainage:- Cause & effect of water logging, detection, prevention & remedy	
	to 09.06.22 (05 period)	Ch-5:- Diversion Head Works & Regulatory Structures.	
14	04.06.22	5-1. Necessity & Objectives of diversion head works, weirs & barrages.	
	to 06.06.22 (06 period)	5-2. General layout, Functions of different part of barrage: Siltings & scouring.	
15	07.06.22	Ch-6:- Cross Drainage Work:-	
	to 09.06.22 (03 period)	→ Functions & necessity of cross drainage works - aqueduct, siphon, Super passage, level crossing.	


Signature of HOD

Tena Geeta
Signature of faculty

subject Hydraulics & Irrigation Engg. (Code) Th. 2 Name of faculty Tina Guwa
 semester 4th Class allotted 5P/Week Branch Civil.

Discipline	Semester	From date: <u>10.03.22</u> To date: <u>10.06.22</u>	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1		<u>Ch 7 - DAMS:-</u> → Necessity of Storage - reservoirs, types of dams.	
	<u>07.06.22</u>	→ Earth Dam: type, description etc.	
	<u>to</u>	→ Gravity dam: type, description, cause.	
	<u>10.06.22</u> (03 period)	→ Spillways :- Types :	
2			
3			
4			
5			
6			
7			

Signature of HOD

Signature of faculty