JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA

DEPARTMENTOF CIVILENGINEERING
LESSON PLAN
PROGRAMME: DIPLOMA IN CIVILENGINEERNG

SUBJECT: HYDRAULICOS IRRIGATION ENGINEERING Come with The 2 NAME OF THE FACULTY: SRI AMIT KUMAR SAHU

SEMESTER: 4TH

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pressure head; pressure gauges, Problem practice	Relationship Between Atmospheric Pressure, Absolute Pressure And Gauge Pressure.	Problem Practice	Gauge Pressure, Absolute Pressure And Variant Pressure	1.2Pressure and its measurements: Intensity Of Pressure. Atmospheric Pressure	Revision	Problem Practice	Ses	Capillarity Viscosity and The Capillarity	1.1Properties Of Fluid :Density, Specific Gravity, Surface Tension	HYDROSTATICS:	TOPICSTOBECOVERED	

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	Problem practice	Application of Weirs	Weirs, Types Of Weirs	Discharge Through Different Types Of Notches	2.2 Flow Over Notches And Weirs: Notches, Types Of Notches	Problem Practice	Applications Of Bernoulli's Equation	Total Energy Of A Liquid In Motion Bernoulli's Theorem And Its Limitations		Rate Of Discharge, Equation Of Continuity Of Liquid Flow:	KINEMATICS OF FLUID FLOW: 2.1 Basic equation of fluid flow and their application.	Problem Practice	Expression For Total Pressure Exerted On Horizontal & Vertical Surface	1.3Pressure Exerted On An Immersed Surface: Total Pressure, Resultant Pressure, Problem Practice

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3.3 Reciprocating pumps: Types, Operation, Discharge,	the state of the s	3.2 Centrifugal pump: Basic Principles, Operation Discharge	3.1 Type of pumps	Discharge Formulae- Chezy sAnd Manning's Equation	2.5 Flow through the Open Channels:	Total energy lines & hydraulic gradient lines	Darcy's equation, problems on losses due to friction		2.4 Losses Of Head Of A Liquid Flowing Through Pipes: Different types of major and minor losses.	Steady And Unsteady Flow; Reynolds's Number	2.3 Types Of Flow Through The Pipes: Uniform And Non Uniform Flow,Laminar And Turbulent; Flow	TOPICSTOBECOVERED	

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2.4 GCA, CCA, Intensity Of Irrigation, Time Factor Cron Ratio
2.3 Duty, Delta And Base Period Their Relationship, Kharif And Rabi Crops
Water Requirement Of Crops 2.1 Definition , Necessity, Benefits Of Irrigation, Types Of Irrigation
Run-Off, Estimation Of Flood Discharge By Dicken's And Ryve's Formulae
1.3 Estimation Of Rainfall, Rain Gauges, Its Types

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WATER LOGGING AND DRAINAGE: 4.1 Causes and effects of water logging Detection, prevention an remedies of water logging	Various Types Of Canal Lining Advantages and disadvantages Canal Lining	3.2 Perennial Irrigation 3.3 Irrigation Canals And Their Functions 3.4 Canal Cross-Sections	Flow Irrigation 3.1 Canal Irrigation, Types Of Canals, loss of water in canals	TOPICS TO BE COVERED

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