

UIT-RGPV (Autonomous) Bhopal

Subject code: BE-360

Subject: Fluid Mechanics I

Semester: III

For credits & marks refer your scheme

COURSE OBJECTIVE

To understand the basic concepts of fluid mechanics for undergraduate students in Civil Engineering. The course will begin with the fundamental concepts of fluid flow and proceed to cover various flow phenomena and approaches to analyse the flow phenomena. Some important applications shall also be covered.

COURSE CONTENT

UNIT I

Fundamentals Fluid Properties: Engineering units of measurement, mass, density, specific weight, specific volume, specific gravity, surface tension, capillarity, viscosity, bulk modulus of elasticity, pressure and vapour pressure.

Fluid Statics: Pressure at a point, pressure variation in static fluid, Absolute and gauge pressure, manometers, Forces on plane and curved surfaces (Problems on Gravity Dams and Tainter Gates), Buoyant force, stability of floating and submerged bodies, relative equilibrium.

UNIT II

Kinematics of Flow: Introduction to basic lines - Streamlines, Streaklines, Pathlines. Various types of fluid flow: Velocity potential function, Stream function, Vorticity and Circulation, Flow net and its applications in Civil Engineering.

UNIT III

Dynamics of Flow: Basic equations of fluid flow like Energy equation, continuity equation and momentum equation. Bernoulli's equation and its applications - Venturimeter, Orifice meter, Pitot Tube, etc. Impulse Momentum equation and its application: Introduction of Weir and Barrages.

UNIT IV

Laminar Flow: Boundary layer concept, Thickness: Nominal thickness Energy thickness and Momentum thickness. Introduction to laminar flow, Reynolds experiment & Reynolds number. Velocity distribution, Laminar boundary layers and laminar sub-layer. Navier Stokes equations, Flow between two parallel plates, Couette's flow, Hagen Poiseuille's equation.

UNIT V

Dimensional Analysis and Dynamic Similitude: Dimensional analysis, dimensional homogeneity, use of Buckingham- π theorem, calculation of dimensionless numbers, similarity laws, specific model investigations (submerged bodies, partially submerged bodies, weirs, spillways, aerodynamic machines, etc.).

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