## Fluid Mechanics

- Properties of Fluids and its Definition (Shear stress-viscosity-specific mass-cavitation-surface tension)
- Static of fluids (Changes in pressure, manometers, force applied on curved surfaces, equilibrium of floating objects)
- Integral approach (Initial Definitions-Reynolds Transport Equation-Mass conservation-Momentum conservation-Energy conservation-Bernoulli Equation-Application of Bernoulli Equation)
- Dimensionless numbers and model studies (Buckingham Theory-Dimension numbers Reynolds-Ford-Weber-Euler and ...-Similarity-Model Studies-Using Dimensionless Numbers and Model Studies in Experimental Studies)
- Flow in pipes (Laminar flow, turbulent flow, laminar and turbulent flow equations, friction in pipes, local pressure drop, parallel and series pipes, measuring instruments in pipes)