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**Course Title :** Fluid Mechanics (I)

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- **Aim:**

Fundamentals of fluid mechanics and study of conservation of mass & momentum in hydrostatic and dynamic fluid flow.

- **Syllabus:**

- ✓ Fundamental laws of fluid mechanics
- ✓ Differential form of conservation of mass and momentum equations
- ✓ Integration form of conservation of mass and momentum equations
- ✓ Incompressible flow in pipelines and channels
- ✓ External flow in pipelines and channels
- ✓ Dimensional analysis

- **Reading Resources:**

Introduction to Fluid Mechanics, 6TH Edition, Robert W. Fox, Alan, T. McDonald, & Philip J. Pritchard Fluid Mechanics, seven edition , Frank M. White