FLUID MECHANICS-I (ME-222)

Pre-requisite: None
Credit Hours: 03
Contact Hours: 48

RECOMMENDED BOOK(S)

Fundamentals of Fluid Mechanics, Bruce R, Munson.

REFERENCE BOOK(S)

Fluid Mechanics, Frank M. White. McGraw Hill.Lates Edition.
Fluid Mechanics, J. M. Cimbala Y. Cengel. McGraw Hill,

COURSE OBJECTIVES

The course is designed to provide strong foundation for the related subjects to be taught in the latter part of Bachelor program. It attempts to cover

S. No.	CLO/PLOS MAPPING	DOMAIN	PLO
1	**Explain** clearly the concepts of fluid mechanics based on analytical relations.	C2	01
2	**Solve** problems correctly related to fluid properties, fluid statics and fluid dynamics.	C3	02
3	**Apply** the concepts of control volume to interpret the flow field.	C3	04

COURSE CONTENTS

Fluid properties.
Fluid statics
Kinematics of flow
Fluid kinematics
Equation of continuity, flow energy equation
Dimensional analysis and similitude