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FLUID MECHANICS

COURSE INFORMATION

by

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Course Information by Nor A Alias

FLUID MECHANICS

- SUBJECT CODE : DAA 1723
- CREDIT HOURS : 3
- CONTACT HOURS : 3
- PRE-REQUISITE : -







This course introduces :

The fundamental principles of fluid mechanics, the governing equations of fluid statics and fluid flow and the methods of solving engineering problems related to fluid mechanics





Course Outcome

By the end of this course, students should be able to:

- CO1: Describe Fluid Properties and the fundamentals of Fluid Mechanics concept.
- CO2: Analyze Fluid Mechanics system and devices such as manometers and piezometer.
- CO3: Apply and analyze Fluid Mechanics theories such as Bernoulli's Theorem, Continuity Equation in Fluid Mechanics system.
- CO4: Analyze the pipeline systems as related to civil engineering.



Course Contents

- CHAPTER 1 : Introduction to Fluid Mechanics
- CHAPTER 2 : Pressure and Fluid Statics
- CHAPTER 3 : Fluid Kinematics
- CHAPTER 4 : Momentum and It's Application
- CHAPTER 5 : Flow in Pipelines
- CHAPTER 6 : Pipeline System







INTRODUCTION TO FLUID MECHANICS







PRESSURE AND FLUID STATICS







FLUID KINEMATICS







MOMENTUM AND IT'S APPLICATION







FLOW IN PIPELINES







PIPELINE SYSTEM





References

- 1. Bruce R. M., Donald F.Y and Theodore H.O. Fundamentals of Fluid Mechanics. Wiley.
- 2. Nakayama Y and Broucher R.F. Introduction to Fluid Mechanics. Revised. Butterworth Heinmann.
- Douglas F.J., Gasiorek J.M., Swaffield J.A. Fluid Mechanics. Prentice Hall 4th Edition.







Lecturer Information (Authors)

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