



**DAA1723**

# **FLUID MECHANICS**

## **MODULE**

Faculty Of Civil Engineering & Earth Resources



**NOR AZLINA ALIAS**

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Penerbit  
Universiti Malaysia Pahang  
Kuantan  
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“To introduce the fundamental principles of fluid mechanics, the basic equations governing fluid statics and fluid flow, and the methods of solving engineering problems related to fluid mechanics”

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## CHAPTER ONE

# INTRODUCTION TO FLUID MECHANICS

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Why it is important for Civil Engineers to study the fluid mechanics?

General knows that the amenities of adequate water services such as the supply of potable water, the drainage systems and also sewerage are essential for the development of industrial society. And it is well known that all these services are pertaining to civil engineers. Listing in Figure 1.1 are the leading figures in Fluid Mechanics. Archimedes for example, investigated fluid statics and buoyancy and formulated his famous law known now as the Archimedes' principle; a Newtonian fluid was named after Sir Isaac Newton while the Bernoulli's theorem that relates pressure, velocity, and elevation in a moving fluid was first derived and named after Sir Daniel Bernoulli.



Figure 1.1 : Leading figures in Fluid Mechanics  
(<https://sites.google.com/site/cfdfreelancer/faces-of-fluid-mechanics>)