UNIVERSITY OF TECHNOLOGY, SYDNEY  
FACULTY OF ENGINEERING  

48641 FLUID MECHANICS  Autumn 2006

Teaching Staff. Lecturer: Dr Phuoc Huynh (Subject Co-ordinator, Rm 2/616, Tel 9514 2675); Tutors: Dr Phuoc Huynh, Mr Peter Essam, Mr Suminto Loe


Class Times & Place: Lecture: Monday 09:00 – 12:00;     Rm 2/4-10  
               Tutorial: Thursday 09:00 – 10:30;      Rooms 2/5-37, 2/5-38, 2/6-41  
               Labs (2 weeks only): Monday 09:00 – 12:00 and Thursday 09:00 – 12:00; Place: TBA

Week  Monday’s date  Topic
1  27 February  Introduction and Basic Concepts. Fluid Properties
2  06 March  Fluid Statics. Forces on Surfaces
3  13 March  Forces on Surfaces. Buoyancy
4  20 March  Stability. Fluids in Rigid Body Motion
5  27 March  Lab 1
6  03 April  Introduction to Fluid Flow. Continuity
7  10 April  Bernoulli & Energy Equations
8  17 April  VC Week
9  24 April  Tutorial Week
10  01 May  Momentum Principles
11  08 May  Lab 2 - Real Fluids
12  15 May  Pipe Flow
13  22 May  External Flow
14  29 May  Open-Channel Flow.
15  05 June  Environmental Fluid Mechanics. Revision

FINAL EXAM

ASSESSMENT:  
Assignments  20 %  
Projects  15 %  
Laboratory attendance and reports  15 %  
Final exam (open-book, 3 hours)  50 %

BPH 
24/02/2006; rev. 27/02/2006