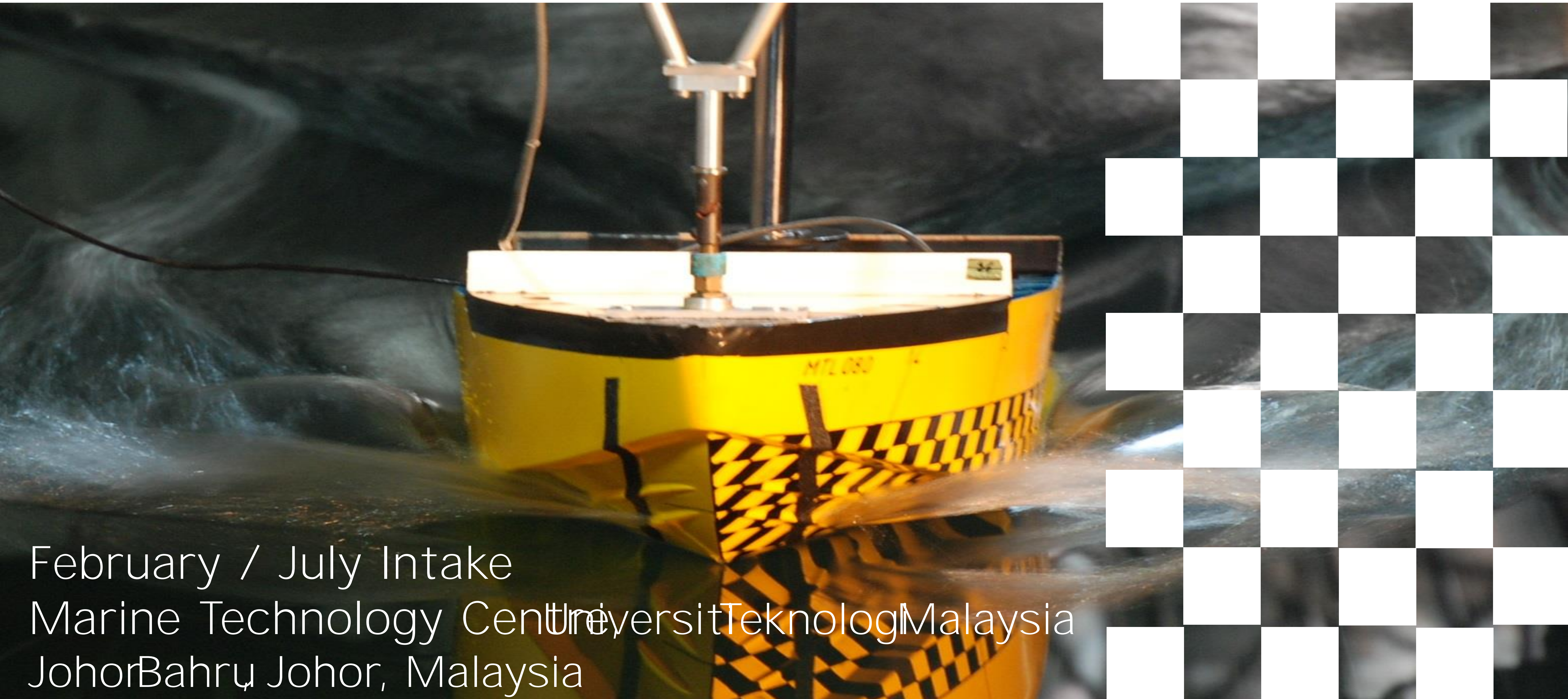




MT018 : 4 days course on Dynamics of Offshore Structures



February / July Intake
Marine Technology Centre, Universiti Teknologi Malaysia
Johor Bahru, Johor, Malaysia

COURSE OBJECTIVES

This course introduces to the wave loading and the motion of floating structure induce by wave. The content of this course is focusing in discuss the fluid structure interaction and the influence of each hydrodynamic coefficient to the motion of floating structure. After completing this course, the participants should be able to:

- "Identify the different types of offshore floating structure and its motion behaviour
- "Describe the environment loading on offshore floating structure;
- "Calculate the dynamic behaviour of floating structure in regular waves and irregular waves condition;
- "Undertake dynamic stability assessment of offshore floating structure using computer software.

METHODOLOGY

"Lecture, discussion, case study, project based learning

ASSESSMENT

"Group design project

WHOSHOULDATTEND

"Engineers, technical personal

COURSE CONTENTS

COURSE CONTENTS	Duration (Hours)
1. Introduction to offshore floating structure	3
2. Characteristic of Ocean Surface Waves	4
3. Wave Loading on Offshore Floating Structure	4
4. Floating Structure's Dynamic	4
5. Floating structure's Motion	4
6. Calculate the Motion Sickness Incidence	3
7. Prediction on the Floating Structure Down Time	3
8. Demonstration of Floating Structure Model Experiment	3
9. Individual consultancy and group project works	5
10. Group presentation	2

COURSE TUTORS

"Professor Dr. Adi Maimun Abdul Malik
"Professor Dr. Omar Yaakob
"Dr. Kang Hooi Siang
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CONTACTUS

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