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VEB4133/VDB4133:Pipeline and Risers - May 2021



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My courses

VEB4133:Pipeline and Risers - May 2021

Turn editing on



This course will educate you on the fundamentals concepts in Pipeline Engineering.

Online lectures will be conducted on Tuesdays and Thursdays from 10:00 am to 12:00 pm starting from Week 2 onwards.

Below is the Learning Materials Distribution Disclaimer:

"Students are reminded that any file or attachment shared with you by your course lecturer is SOLELY for educational purposes and/or your personal and private study ONLY, and therefore cannot be shared with or disseminated to anyone else or uploaded on any website without the permission or authorisation of the copyright owner".

A MARE Sponsored Undergraduate Course

The course 'Pipelines and Risers' has been acknowledged as one of the courses under the banner of 'Marine Coastal and Delta Sustainability for Southeast Asia (MARE) (Project No. 610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP), which was recently awarded to UTP. There are 13 partner organisations involving 5 countries in this Erasmus+ project.

MARE program is co-funded by the Erasmus+ Programme of the European Union under the capacity building in higher education action. MARE program aims to promote sustainable governance and management of coastal, delta and marine socio-ecological systems in Malaysia and Vietnam as well as adjacent waters through ICT-enhanced tertiary education linked to labour markets and wider stakeholder circles.

The aim of MARE project will be achieved through the following objectives:

1. To revise and upgrade selected CDM-relevant for undergraduate and postgraduate CDM programs in making them end-user-oriented & policy-relevant, and develop 6 modules addressing CDM-related hotspots, that can be used interchangeably in tertiary & LLL

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- 2. To develop shared MARE open education environment platform & online training services of the new generation for qualitative improvement of the education process & academic workflow support among universities & stakeholders across the PCs & EU.
- 3. To create sustainable feedback mechanisms to end-users, ensuring adaptive & practice-relevant teaching contents, knowledge coproduction opportunities and stakeholder support to post-project course development & teaching.
- 4. To develop capacity for academic mobility, shared experimental facilities and joint research by PIs & beyond.

Details of MARE Project in UTP can be found here: https://www.utp.edu.my/Pages/The-Latest-Detail.aspx?news=130



Co-funded by the Erasmus+ Programme of the European Union



- Course Outline
- E-book on 'Offshore Pipelines'
- E-book on 'Offshore Pipelines', 2nd. ed.

Week 1 Lecture - Intro. to Subsea Field Components

- Introduction to Subsea Field Components
- Week 1 Lecture: Tues (4 May, 8 am 10 am)
- Week 1 Lecture: Thurs (6 May, 2 pm 4 pm)
- Week 1 Learning Satisfaction Poll
- Week 1, Tues recording
- Week 1, Thur recording



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Week 2 Lecture - Carbon Manganese Steel Pipeline, Pipeline \equiv Construction R Carbon Manganese Steel Pipeline **Pipeline Construction** API 5L design standards Week 2 Lecture: Tues (11 May, 10 am - 12 pm) Week 2 Learning Satisfaction Poll Week 2, Tues recording Week 3 Lecture - Pipeline Route Selection Pipeline Route Selection Week 3 Lecture: Tues (18 May, 10 am - 12 pm) Week 3 Learning Satisfaction Poll Week 3, Tues recording Project (Deadline: 10th July 2021) **Grouping list** Project Question (deadline 10th July) Project Drawings





How to appreciate pressure in pipelines?

Week 4 Learning Satisfaction Poll

Week 4, Mon recording

Week 4, Thurs recording

Week 5 Lecture - Pipeline Designs (Governing data)

Pipeline Design (copy)

Week 5 Lecture: Tues (1 Jun, 10 am - 12 pm)

Adjunct Lecture (Mdm Shazwina Abdul Rahman, PETRONAS): Thurs (3 Jun, 10 am - 12 pm)

Week 5 Learning Satisfaction Poll

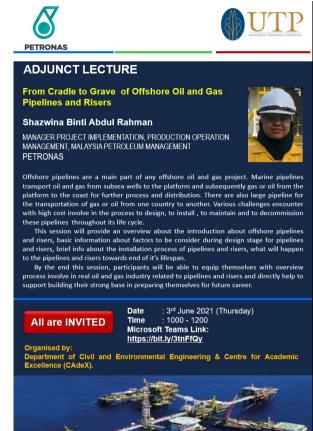
Week 5, Tues recording

Week 5, Thurs Adjunct Lecture recording

An Adjunct Lecture session by Mdm Shazwina Abdul Rahman on 'From Cradle to Grave of Offshore Oil and Gas Pipelines and Risers'







Test 1 (4 June 2021, 8:30 pm -9:30 pm)



VDB/VEB 4133: Pipelines and Risers - Online Test 1 (MCQ)

Restricted Available from 4 June 2021, 8:30 PM

INSTRUCTIONS TO CANDIDATES (MCQ)

- 1. This ONLINE TEST contains FOURTY (40) Multiple Choice Questions (MCQ) ONLY.
- 2. Answer ALL questions in ONE (1) HOUR.
- 3. Only **SINGLE** attempt for this test is **ALLOWED**.
- 4. **EACH** question needs to be **ANSWERED** before proceeding to the **NEXT** one. Going back to the previous question is **NOT**



Declaration Statements Before I click the button to start Online Test, I hereby agree to the following conditions: \equiv ✓ understand that Plagiarism (copying / cheating) is not permitted, and if caught and found guilty, I will receive an F grade for this Online Test, and will be subjected to the Academic Disciplinary Committee. I hereby certify that all answers submitted for this Online Test is my own original work. Assignment 1 (20 June 2021) Assignment 1 Week 6 Lecture - Pipeline Designs (Wall thickness, Spanning) Pipeline notes on: Dimensions and Pressures Pipeline Design revised notes Example on wall thickness calculations Example on spanning calculations Week 6 Lecture: Tues (8 Jun, 10 am - 12 pm) Week 6 Lecture: Thurs (10 Jun, 10 am - 12 pm) Week 6 Learning Satisfaction Poll Week 6, Tues recording Week 6, Thurs recording

Week 7 Lecture - Pipeline Designs (Stability, Cathodic Protection)



An Adjunct Lecture session by Mr I Wayan Eka Putra and team on Deepwater <u>Pipeline Design</u> & Installation in Malaysia'



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ADJUNCT LECTURE

Deepwater Pipeline Design & Installation in Malaysia

I Wayan Eka Putra

STAFF PIPELINE ENGINEER - OFFSHORE DESIGN PROJECT DELIVERY & TECHNOLOGY (PD&T) PETRONAS



I Wayan Eka Putra has twenty (20) years' experience in pipeline. He was involved in various engineering design, including feasibility study, conceptual design basic engineering/front end engineering design (FEED), detail design, procurement, construction/fabrication, installation, operation, inspection, maintenance repair and rehabilitation for oil and gas pipelines, either as consultant, contractor (2001 -2008) or as oil & gas operating company (PETRONAS, 2008 - now).

He is currently a Staff (Specialist) Pipeline Engineer, Offshore Design, in Group Technical Solutions (GTS) PETRONAS, discipline resources person (DRP) for pipeline skill group (SKG), and appointed as Technical Authority for pipeline projects within PETRONAS group, Malaysian and international operation, including Joint Ventures (JV) projects. During his 13 years tenures in PETRONAS (since 2008 till date), he has been involved in handling various pipeline projects in Malaysia (Peninsular, Sabah, Sarawak), South East Asian region, Turkmenistan, and various other PETRONAS pipelines or worldwide. In addition, he is also DRP for Geotechnical Skill Group.



 Date
 : 17th June 2021 (Thursday)

 Time
 : 10:00 am - 12:00 noon

 Microsoft Teams Link: https://bit.ly/3eo2Fkl

Organised by:
Department of Civil and Environmental Engineering & Centre for Academic





Self-Learning Assignment (Not to be submitted)

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Stay in touch



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