

VISION



Our vision is to be a higher education institution of ocean engineering in international level that become a reference in South-east Asia



JOB PROSPECTS



Oil and Gas Industry

Government Institutions



Onshore and Offshore Construction Company

SCIENTIFIC PUBLICATIONS



"International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management"

Collaboration with national and international institution as learning opportunity to networking, promote research, and foster the collaboration.

isoceen.its.ac.id



"International Journal of Offshore and Coastal Engineering"

International scientific journal that published by Department of Ocean Engineering

iplek.its.ac.id/index.php/ijoce



"International Conference on Marine Technology"

Collaboration with Faculty of Marine Technology to held the international conference

senta.its.ac.id

COLLABORATIONS

Department of Ocean engineering has been collaborating with other education institutions in national and international, governments, and industry companies. The purpose of this relations to improve the hard skills by joint research, focus group discussion, internship, and other events.

HIGHER EDUCATION

National



ITB Bandung, Universitas Hassanudin, ITK Balikpapan, ITERA Lampung, UGM Jogjakarta, Universitas Indonesia, IPB Bogor, UNDIP Semarang, UNS Semarang, UNPATTI Ambon, UNHAS Makassar, etc

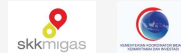
International



IHE Delft, TUDelft, NTU Norwegia, Newcastle Upon Tyne, Glasgow University, Memorial University of New Foundland, Queen's University, University of North Carolina at Charlotte, Tohoku University, Kyushu University, Osaka Prefecture University, Kyoto University, Hiroshima University, etc

GOVERNMENT INSTITUTION AND INDUSTRIES

Government Institution



Kemenko Kemaritiman dan Investasi, Kementerian Perindustrian, Kementerian ESDM, Kementerian Kelautan dan Perikanan, SKK Migas, Kementerian Pariwisata, Kementerian PU, BMKG, TNI-AL, etc

Industries



Pertamina, Shell, UNOCAL, PLN, Total E&P Indonesia, PT PAL Indonesia, Pelindo, PT Dok Perkapalan Surabaya, SPIL, Meratus, Maersk Line, etc

NATIONAL & INTERNATIONAL PRIVATE INSTITUTION



Laboratorium Hidrodinamika Indonesia, BKI, Lloyd's Register, Bureau Veritas, DNV, MARTEC, NUFFIC, World Bank, Moribukagakusho, etc



DEPARTMENT OF OCEAN ENGINEERING

Faculty of Marine Technology
Institut Teknologi Sepuluh Nopember
(ITS) Surabaya



STUDY PROGRAM

Undergraduate Program
-Ocean Engineering
-Offshore Engineering

Master Program
-Ocean Engineering

Doctor Program
-Ocean Engineering

ACCREDITATION



BAK-PT
BADAN AKREDITASI NASIONAL
PERGURUAN TINGGI



IABEE

2nd Floor of Gedung WA, Kampus ITS
Sukolilo Surabaya 60111

tkelautan@its.ac.id

+62 31 5928105

https://www.its.ac.id/kelautan



LABORATORIUM

Lab Base Education (LEB): laboratorium as the center of research learning and community service

1. Ocean Structure, Material, and Production
2. Ocean Hydrodynamic
3. Coastal and Port Infrastructure
4. Environment and Ocean Energy
5. Ocean Engineering Hydro-Informatics
6. Ocean Structure Construction



LECTURERS

| | |
|---|--|
| Prof. Ir. Widi Agus P., M.Sc., Ph.D. | Herman Pratikno., S.T., M.T., Ph.D. |
| Ir. Wisnu Wardhana, M.Sc., Ph.D. | R Haryo Dwito A., S.T., M.Eng., Ph.D. |
| Prof. Ir. Eko Budi D, M.Sc., Ph.D. | Suntoyo, S.T., M.Eng., Ph.D. |
| Dr. Ir. Wahyudi, M.Sc. | Sujantoko S.T., M.T. |
| Prof. Ir. Daniel M. Rosyid, Ph.D. | Dr. Eng. Kriyo Sambodho., S.T., M.Eng. |
| Prof. Drs. Mahmud Musta'in., M.Sc., Ph.D. | Nur Syahroni, S.T., M.T., Ph.D. |
| Ir. Handayani, M.Sc. Ph.D. | Dr. Eng. Yeyes Mulyadi, S.T., M.Sc. |
| Prof. Ir. Mukhtaksor, M.Eng., Ph.D. | Dr. Eng. M. Zikra, S.T., M.Sc. |
| Ir. Murdjito M.Sc. Eng | Silvianita, S.T., M.Sc., Ph.D. |
| Dr. Eng. Rudi Walujo P, S.T., MT | Wimala Lalitya Dhanistha, S.T., M.T. |
| Yoyok Setyo H., S.T, MT, Ph.D. | Dr. Eng. Shade Rahmawati, S.T., M.T. |
| Dr. Ir. Hasan Ikhwanii., M.Sc. | Raditya Danu Riyanto, S.T., M.T. |
| | Dr. Dendy Satrio, S.ST. |

Curriculum of Ocean Engineering Undergraduate Program

| 1st Semester Course | Credit | 5th Semester Course | Credit |
|---|-----------|--|-----------|
| English | 2 | Structural Dynamics | 3 |
| Physics 1 | 4 | Marine hydrodynamics | 4 |
| Material Science & Processing Technology | 3 | Fatigue and Fracture Mechanics | 3 |
| Chemistry 1 | 3 | Design of Coastal Structures | 2 |
| Mathematics 1 | 3 | Design and Construction of Offshore Structures 1 | 3 |
| Pancasila | 2 | Coastal Protection Structures | 3 |
| Introduction to Marine Technology | 2 | | |
| Total Credit | 19 | Total Credit | 18 |
| | | | |
| 2nd Semester Course | Credit | 6th Semester Course | Credit |
| Spiritual Studies Indonesian | 2 | Engineering Economics and Project Management | 3 |
| Physics 2 | 2 | Marine System Operation and HSE | 3 |
| Civics | 3 | Design of Fixed Offshore Structures | 3 |
| Mathematics 2 | 3 | Design and Construction of Offshore Structures 2 | 3 |
| Engineering Mechanics 1 | 3 | Oil and Gas Technology and Ocean Energy | 3 |
| Theory of Floating Structures 1 | 3 | Technology of Offshore Production and Repair | 3 |
| Total Credit | 17 | Total Credit | 18 |
| | | | |
| 3rd Semester Course | Credit | 7th Semester Course | Credit |
| Numerical Modelling and Analysis | 4 | Research Methodology | 3 |
| Fluid Mechanics | 3 | Offshore Pipeline Engineering | 3 |
| Engineering Mechanics 2 | 3 | Concept of Technology | 3 |
| Oceanography | 3 | Design of Floating Offshore Structure | 3 |
| Engineering Statistics | 2 | Choice course 1 | 3 |
| Theory of Floating Structures 2 | 3 | Choice course 2 | 3 |
| Total Credit | 18 | Total Credit | 18 |
| | | | |
| 4th Semester Course | Credit | 8th Semester Course | Credit |
| Ocean Wave Mechanics | 3 | Risk Analysis and Reliability | 2 |
| Soil Mechanics and Foundations | 4 | On Job Training | 2 |
| Finite Element Method | 3 | Operation Research and Optimization | 2 |
| Basic Design of Floating Structures | 3 | Technopreneurship | 2 |
| Coastal Processes | 3 | Enrichment course | 5 |
| Welding Technology and Inspection 4 | 2 | Final Project | 5 |
| Total Credit | 20 | Total Credit | 16 |
| | | | |
| Total Credit of Undergraduate Program: 144 | | | |

Curriculum of Offshore Engineering Undergraduate Program

| 1st Semester Course | Credit | 5th Semester Course | Credit |
|---|-----------|--|-----------|
| Introduction to Marine Technology | 2 | Design of Floating Offshore Structures | 3 |
| Pancasila | 2 | Underwater Works Engineering | 3 |
| Physics 1 | 4 | Finite Element Method | 3 |
| English | 2 | Fatigue and Fracture of Offshore Structures | 3 |
| Theory of Floating Structures 1 | 3 | Construction of Fixed Offshore Structures | 3 |
| Mathematics 1 | 3 | Operation Research and Optimisation | 2 |
| Chemistry 1 | 3 | Corrosion of Offshore Structures | 2 |
| Total Credit | 18 | Total SKS | 18 |
| | | | |
| 2nd Semester Course | Credit | 6th Semester Course | Credit |
| Spiritual Studies | 2 | Engineering Economics and Project Management | 2 |
| Civics | 2 | Structural Dynamics | 3 |
| Physics 2 | 2 | Design Project of Fixed Offshore Structures | 3 |
| Theory of Floating Structures 2 | 3 | Offshore Operation Systems | 3 |
| Engineering Mechanics 1 | 3 | Construction of Floating Offshore Structures | 2 |
| Mathematics 2 | 3 | Strength of Offshore Structures | 3 |
| Indonesian | 2 | Research Methodology and Scientific Writing | 2 |
| Total Credit | 18 | Total SKS | 18 |
| | | | |
| 3rd Semester Course | Credit | 7th Semester Course | Credit |
| Engineering Statistics | 2 | Technology Insight and Application | 3 |
| Numerical Method and Computer Programming | 3 | Choice Course 1 | 3 |
| Oceanography | 3 | Technopreneur | 2 |
| Material Science and Processing Technology | 3 | Design Project of Floating Structures | 3 |
| Engineering Mechanics 2 | 3 | Design and Dynamics of Mooring Systems | 3 |
| Fluid Mechanics | 3 | Design of Offshore Pipelines | 3 |
| Offshore Hydrodynamics 1 | 3 | | |
| Total Credit | 18 | Total SKS | 17 |
| | | | |
| 4th Semester Course | Credit | 8th Semester Course | Credit |
| Welding Technology of Offshore Structures | 4 | Enrichment Courses | 3 |
| Offshore Hydrodynamics 2 | 4 | Reliability and Integrity of Offshore Structures | 2 |
| Reservoir Technology | 3 | Choice Course 2 | 3 |
| Design Project of Basics Floating Structures | 3 | On Job Training | 2 |
| Design of Fixed Offshore Structures | 3 | Final Project | 5 |
| Design of Offshore Geotechnics | 3 | | |
| Total Credit | 20 | Total SKS | 15 |
| | | | |
| Total Credit of Undergraduate Program: 144 | | | |

STUDENT ACTIVITIES

As exploration and softskill development

- 1. HIMATEKLA**
(Himpunan Mahasiswa Teknik Kelautan)
Ocean Engineering Student Association
- 2. OCEANO**
(Ocean Engineering Exhibition and Competition)
Annual International multievent
- 3. OORC (Ocean Oil Rig Club)**
Club for students to develop and design oil and gas offshore rig
- 4. OURC (Ocean Underwater Robotic Club)**
Club to develop underwater technology such as ROV, AUV, etc
- 5. Student Exchange**
Chance for students to experience foreign universities learning
- 6. Study Excursion**
Visiting some places and experience the field of ocean engineering
- 7. Spiritual Activities**
To support spiritual needed of each student



ACHIEVEMENTS



- Medali Emas PIMNAS PKM GT 2021
Adiwira Surya Susanto; Adinda Anggraeni
 - Medali Perak PIMNAS PKM 5 Bidang 2020
Muhammad Rizky Syarifudin; Widi Utami; Maulana Akbar Ramadhani
 - Winner China-Asean Student "learning About Ocean" Film Festival 2020
Andreas Anthoni Wiyanto; Indah Aqnaita Tidar Yasmin Zein
 - Gold Medal World Invention Competition and Exhibition 2021
Fachrizar Abimanyu; Abdullah Ibrahim
 - Silver Medal IPITex, Bangkok 2021
Adiv Gayu Athallah; Mujadid Aldin Albasyir; Annisa Aulia
 - Winner of International Aquaculture Innovation Challenge Aquafest IPB 2021
Ahmad Qaedi Lutfi; Gumilang Alhafizh; Muhammad Zakaria Al Amin
 - 1st Runner Up of Paper and Poster Competition RAISE 2021 UPN VY
Angelica David Vinci; Mohammad Nabil Rohman; Mutia H Br Sinuraya
 - 1st Runner Up Case Study BOREYES 2021, Universitas Padjajaran
Christoforus Marchiavelly N.; Nicodemus Sintong O.S.; Nauval Nurahmad
- Serta prestasi lainnya