

VISION

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

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JOB PROSPECTS



SCIENTIFIC PUBLICATIONS

ISOCEEN

isoceen.its.ac.id

"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.

IJOCE

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

"International Journal of Offshore and Coastal Engineering"

International scientific journal that published by Department of Ocean Engineering

SENTA

senta.its.ac.id

"International Conference on Marine Technology"

Collaboration with Faculty of Marine Technology to held the international conference

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, UNPatt Ambon, UNHAS Makassar, etc.

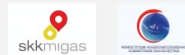
International



IHE Delft, TUDelft, NTU Norwegia, Newcastle Upon Tyne, Glasgow University, Memorial University of New Foundland, Queens 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



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

Industries



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

NATIONAL & INTERNATIONAL PRIVATE INSTITUTION



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

Profil Profesi Mandiri Program Studi Sarjana Teknik Kelautan adalah sebagai berikut.



Link Web: <https://www.its.ac.id/tkelautan/profil-lulusan/>

PPM-1: Perekayasa Kelautan (Ocean Engineer)

Seorang ahli teknik kelautan yang mampu bekerja secara mandiri dan secara aktif dalam tim untuk merancang, membangun, mengawasi dan merawat bangunan laut dan pesisir berdasarkan prinsip-prinsip rekayasa dengan mempertimbangkan standard, code, rules, regulation, guideline dan recommended practice.

PPM-2: Wirausahawan (Entrepreneur) Teknologi Kelautan

Seorang ahli teknik kelautan yang mampu menyelenggarakan kegiatan wirausaha yang terkait bidang teknik kelautan dan pendukungnya.

PPM-3: Manajer Proyek Kelautan

Seorang ahli teknik kelautan yang menguasai kompetensi perencanaan, eksekusi, supervisi dan evaluasi dalam sistem organisasi untuk menyelenggarakan operasi ataupun proyek-proyek di bidang teknik kelautan dan mampu beradaptasi dalam lingkungan lintas budaya dengan mempertahankan norma, etika dan moral.

PPM-4: Akademisi/Peneliti Rekayasa Kelautan

Seorang ahli teknik kelautan yang mampu bersikap akademik, berpikir ilmiah dan memiliki kemauan belajar secara terus-menerus.

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



2nd Floor of Gedung WA, Kampus ITS
Sukilo 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.
 Ir. Wisnu Wardhana, M.Sc., Ph.D.
 Prof. Ir. Eko Budi D., M.Sc., Ph.D.
 Dr. Ir. Wahyudi, M.Sc.
 Prof. Ir. Daniel M. Rosyidi, Ph.D.
 Prof. Drs. Mahmud Musta'in, M.Sc., Ph.D.
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 Wimala Lalitya Dhanistha, S.T., M.T.
 Dr. Eng. Shade Rahmawati, S.T., M.T.
 Raditya Danu Riyanto, S.T., M.T.
 Dr. Dendy Satrio, S.T.

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	18
Total Credit	19		
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	2	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	2	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	4	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	2	Construction of Fixed Offshore Structures	2
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 SKS	17
Total Credit	18		
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 SKS	15
Total Credit	20		

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. **OORC (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
 Chnstoforus Marchiavelly N.; Nicodemus Sintong O.S.; Nauval Nurahmad

Serta prestasi lainnya