



## FACTS

### Target students:

- Graduates of a undergraduate study course in a maritime sector (or comparable)
- Active ship engineers
- Marine engineering instructors

**Degree:** Master of Sciences (M. Sc.), Double Degree of Hochschule Wismar (Germany) and ITS Surabaya (Indonesia)

**Study locations:** Hochschule Wismar at the Department of Maritime Studies in Rostock-Warnemünde (Germany) and ITS Institut Teknologi Sepuluh Nopember at the Department of Marine Engineering in Surabaya (Indonesia)

All lectures and seminars are conducted in English.

**Standard period of study:** 4 semester full-time study

**Enrolment:** yearly to the winter semester

### Admission requirements:

- First academic degree in a maritime-engineering or a comparable course at a national or an international university.
- The overall grade of the qualified degree should be a minimum of 2.5, if the grade system is comparable to the German grade system. If the grade system is comparable a GPA of 3.75/5.0 is required.
- Relevant professional praxis is able to enhance the final grade. Per completed year in career an improvement of 0.1 is possible. Maximal four years in career are usable for deduction.
- The Admission is to fail, if the final grade is 3.0 or worse. The examination board has to decide about that.
- Successful institutional TOEFL or IELTS Test.



## JOB DESCRIPTION

The skills taught in this Master's Degree programme ensure that graduates are very well prepared to meet the demands of an executive position, requiring advanced, interdisciplinary knowledge, particularly in technology- and business-oriented thinking and in terms of soft skills.

The Master's degree holders are featured to deal with comprehensive and complex tasks in the field of marine engineering. With their deep knowledge, multidisciplinary skills and capability they are able to solve engineering problems considering the different requirements of the technological, economical and risk-oriented science. They work self-consistent and independent, are able to lead a group of workers and learn intercultural competences and skills in particular between Asian and central European cultures.

For graduates of this study program, there are various career opportunities in the management levels in

- Off-shore sector
- Shipyards
- Shipping companies
- Research and development sector
- Classification societies
- Insurance companies

For graduates seeking a career in maritime research or teaching, the Master's degree provides access to a PhD.

## MASTER'S DEGREE PROGRAMME

## MARINE ENGINEERING

Faculty of Engineering



## STUDY PROGRAMME

This double degree master programme “Marine Engineering” is a cooperation between Hochschule Wismar / Germany and “Institut Teknologi Sepuluh Nopember” Surabaya (ITS) / Indonesia. Both universities have a superb international reputation and the highest standards in higher maritime education. By combining the strengths of both, the universities offer an outstanding programme for future executives in the field of marine engineering. The master’s programme is focused on the growing demand for maritime engineers in Indonesia, Asia and around the world.

The Master’s program is a consecutive study and has a duration of four semesters. Two semesters (1st and 3rd semester) will be held at ITS Surabaya/ Indonesia, the 2nd semester will be held at Hochschule Wismar in Rostock/Germany and the last 4th semester is optional either at ITS or at Hochschule Wismar (based on student’s choice).

As part of their studies, students have developed in addition to technical skills also elementary intercultural competencies primarily between the European and Asian cultures. The graduates of the study program “Marine Engineering” receive the degree “Master of Sciences” (M. Sc.) from Hochschule Wismar as well as the Indonesian degree from ITS Surabaya.

The main benefits of the programme include:

- An excellent study programme in Indonesia and Germany followed by global employment opportunities
- The development of outstanding competencies and a high educational standard of marine engineering
- Alignment of the needs of the industry and preparation for a PhD



## CURRICULUM

The degree program is a consecutive, research-oriented Master’s program. In this master study, the knowledge in the basic subjects will be deepened and expanded in additional courses. Furthermore, there is the possibility to put a focus on a discipline from several elective modules. Offered compulsory modules:

- Risk Management
- Maritime Economics
- Fuel Technology and Operation
- Reliability and Research Operations
- Renewable Offshore Energy and Simulation
- Maritime Communication
- Structural Analysis
- Research Methodology
- Thermal and fluid system design
- Efficient Ship and Fleet Operation
- Risk Based Design and Marine Evacuation

Students have the opportunity to choose four of these elective modules:

- Integrated Manoeuvring/Propulsion and Navigation Systems
- Operation, Monitoring & Maintenance of Technical Systems
- Maritime Operation System
- Technic of Internal Combustion Engine
- Marine Control System
- Safety of Navigation

At semester four students write their master’s thesis and defend it in a public colloquium. The students have the choice to do this at Hochschule Wismar in Rostock/Germany or at ITS in Surabaya / Indonesia.



## CONTACT

Please apply at both universities

**Deadline for application:**  
15<sup>th</sup> of July

**Application at Hochschule Wismar:**  
[www.hs-wismar.de/online-bewerbung](http://www.hs-wismar.de/online-bewerbung)

**Hochschule Wismar:**  
University of Applied Sciences  
Technology, Business and Design  
Department of Maritime Studies  
Richard-Wagner-Str. 31  
18119 Rostock-Warnemünde  
Germany  
[www.hs-wismar.de/seefahrt](http://www.hs-wismar.de/seefahrt)

**International Office at Hochschule Wismar**  
Phone: +49 3841 753-7390  
E-Mail: [international.office@hs-wismar.de](mailto:international.office@hs-wismar.de)  
[www.hs-wismar.de/en/international](http://www.hs-wismar.de/en/international)

**Application at ITS Surabaya:**  
[www.ne.its.ac.id/pasca/admission-for-double-degree-program](http://www.ne.its.ac.id/pasca/admission-for-double-degree-program)

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Faculty of Marine Technology  
Department of Marine Engineering  
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