

Open-Minded

Universität Duisburg-Essen

Institut für Schiffstechnik, Meerestechnik
und Transportsysteme (ISMT)

Bismarckstr. 69
47057 Duisburg

Tel.: +49 203 379-1173

Fax.: +49 203 379-2779

E-Mail: ismt@uni-due.de

Internet: <http://www.uni-due.de/IST/>

Education

The Institute of Ship Technology, Ocean Engineering and Transport Systems (ISMT) provides students with a profound knowledge in the fields of ship technology and ocean engineering. The academic curriculum of engineering with emphasis on “Ship Technology and Ocean Engineering” within the department “Mechanical and Process Engineering” of the Faculty of Engineering is based on the internationally accredited undergraduate and graduates programmes “Mechanical Engineering”. The core areas of teaching are hydrodynamics and ship design, marine power plants as well as the structural design of ships and offshore constructions.

Research

In research, the institute particularly concentrates on the fields of hydrodynamics and fluid-structure-interaction as well as the design of marine power plants and investigates in the field of ocean engineering. The students are given the chance to get involved in research projects and obtain practical experience in the institute’s own laboratory.

Services

- PIV (Particle-Image-Velocimetry) measurements
- Experimental investigations of fluid motions in partially filled tanks, containers, etc. as well as the resulting loads
- Hydrodynamic investigations in the maritime context (seakeeping, loads, manoeuvring, shallow water, resistance, propulsion, etc.)