



Technische Universität Hamburg-Harburg

Institut für Entwerfen von Schiffen und Schiffssicherheit

Technische Universität Hamburg-Harburg Institut für Entwerfen von Schiffen und Schiffssicherheit (M-06)

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Education

The institute is responsible for the education in Naval Architecture. The lectures cover basic hydrostatics, design principles and methodologies, safety of ships, resistance and propulsion, marine propellers and the design of high value ships.

An important focus is the introduction of first principle design methods into the early design process. The institute is specialized in high value ships such as Pax, RoPax, RoRo and Navy Ships.

Main Areas of Research

- Development of hydrodynamic Calculation Methods for the early design stage of ships
- Development of new Design Methods for Product Design in Naval Architecture
- Simulation of Propeller induced Pressure Fluctuations.
- Designloads on Ruders and other maneuvering Devices.
- Hulloptimisation with CFO Methods.
- Maneuvering behavior at slow Speeds.

Service

The institute runs several projects for different industrial partners such as shipyards, suppliers and ship owners. This covers the evaluation of ship designs or supply parts as well as the development of tailor made evaluation software for industrial partners.