

- 4 Reason out the manoeuvring behaviour of a ship. Distinguish the most important characteristics of a ship's steering equipment (rudder). Define the main techniques used to determine and evaluate a ship's manoeuvring behaviour.
- 5 Get acquainted with the specific hydrodynamic behaviour of a ship in shallow and confined navigation areas.
- 6 Give an explanation for the dynamic behaviour of a floating structure in waves. Be able to use professional terminology with respect to the behaviour of floating structures in waves.
- 7 Describe the main actors in the shipping world.
- 8 Analyse specific problems concerning hydrostatics and stability of a simple floating structure.
- 9 Execute hydrostatic calculations and stability calculations for a pontoon by means of specialised software.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar, Lecture, Independent work

Extra information on the teaching methods

Lectures, exercises and project about the specific topics of the courses content, with the possibility of asking questions.

If possible, the lectures are supplemented with visits to relevant research institutions and companies

Study material

Type: Syllabus

Name: syllabus of this course
 Indicative price: € 20
 Optional: no
 Language : English
 Number of Pages : 300
 Oldest Usable Edition : 2024
 Available on Ufora : Yes
 Online Available : No
 Available in the Library : No
 Available through Student Association : No

Type: Laptop

Name: laptop
 Indicative price: € 1,000
 Optional: no
 Available through Student Association : No
 Usability and Lifetime within the Course Unit : regularly
 Usability and Lifetime within the Study Programme : regularly
 Usability and Lifetime after the Study Programme : regularly

References

- Mansour, A. E., Liu, D., Paulling, J. R., & Society of Naval Architects and Marine Engineers (U.S.). (2008). Strength of ships and ocean structures. Jersey City, N. J: Society of Naval Architects and Marine Engineers.
- Lewis, E. V., & Society of Naval Architects and Marine Engineers (U.S.). (1988). Principles of naval architecture. Jersey City: Society of Naval Architects and Marine Engineers.
- Scheepskennis (K. van Dokkum, Dokmar, Delfzijl 2001)

Course content-related study coaching

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Oral assessment

Examination methods in case of periodic assessment during the second examination period

Oral assessment

Examination methods in case of permanent assessment

Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

- During examination period: oral closed-book exam, written preparation
- During semester: graded project reports.

Calculation of the examination mark

- Oral closed-book exam during examination period: 70%
- Project reports during semester: 30%.

The student can only pass for the entire course if for each of the above mentioned items a mark of at least 5 on 20 is obtained.

If the above conditions are not met the final mark is the minimum of 9/20 and the above mentioned weighted result.