Studiefiche

Academiejaar 2016-2017 t.e.m. 2018-2019

Cursusomvang (nominale waarden; effectieve waarden kunnen verschillen per opleiding)

| Studiepunten | 5.0 |
| Studietijd   | 150 u |
| Contacturen | 45.0 u |

Aanbodssessies en werkvormen in academiejaar 2018-2019

A (semester 1)   Engels   hoorcollege   45.0 u

Lesgevers in academiejaar 2018-2019

Vantorre, Marc   TW15   Verantwoordelijk lesgever

Aangeboden in onderstaande opleidingen in 2018-2019

stptn   aanbodsessie

Master of Science in Maritime Science

5   A

Onderwijstalen

Engels

Trefwoorden

ship structure, principles of ship hydrostatics and stability, principles of ship resistance, ship propulsion, manoeuvring and seakeeping, ship types, ship technology

Situering

The course belongs to the technical pillar of the master in Maritime Science. The goal of the course is to give a global overview of the technological aspects of a ship, in particular for students with a non-technical education. The basic technological principles and terminology are taught to the students, together with insight into the structure and operation of different ship types.

Inhoud

In particular, the following subjects are discussed:
• terminology of the ship structure (components; dimensions including gross and net tonnage; freeboard; shape; subdivision; construction elements)
• Ship hydrostatics (general principles; stability: physical background, regulations, practical data; watertight subdivision and damage stability; stranding and docking)
• Ship hydrodynamics (resistance; propulsion: engine, screw propeller, other types of propulsion; steering and manoeuvring: course stability, steering devices (rudder, thrusters), manoeuvrability, trials, restricted water effects, manoeuvring simulation; ship behaviour in waves: principles, roll damping devices; anchoring and mooring equipment)
• Ship types (tankers, bulk carriers, general cargo, container carriers, roro vessels, tugs, inland vessels)

Begincompetenties

Basic knowledge of physics (secondary school level)

Eindcompetenties

1 Having basic knowledge and understanding of the technological aspects of a ship that are relevant for maritime law and transport economy.
2 Having insight into the technological aspects not belonging to the own discipline or specialization.
3 Having a multidisciplinary attitude and being prepared to exceed the boundaries of the own discipline or specialization.
4 Having insight into the mutual impact of changing legal, economical and technical elements and being prepared to study and follow these. Having insight into the mutual impact of changing legal, economical and technical elements and being prepared to study and follow these.

Creditcontractvoorwaarde

(Goedgekeurd) 1
Dit opleidingsonderdeel kan niet via creditcontract gevolgd worden

Examencontractvoorwaarde
Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

Didactische werkvormen
   Hoorcollege

Toelichtingen bij de didactische werkvormen
   Lectures 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

Leermateriaal
   syllabus
   lecture notes
   powerpoint presentations via Minerva

Referenties
   DOKKUM, K. van, Scheepskennis, Dokmar, Delfzijl, 2001; library Maritime Technology Division - UGent

Vakinhoudelijke studiebegeleiding
   possibility of consulting lecturer or assistant

Evaluatiemomenten
   periodegebonden evaluatie

Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode
   Mondeling examen

Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode
   Mondeling examen

Evaluatievormen bij niet-periodegebonden evaluatie

Tweede examenkans in geval van niet-periodegebonden evaluatie
   Examen in de tweede examenperiode is mogelijk

Toelichtingen bij de evaluatievormen
   The learning content for the exam is communicated via Minerva
   Oral exam with written preparation
   Open questions: two big 'overview questions', testing the knowledge, understanding and general insight of the student concerning the technological aspects of a ship; third question about the clarification of specific terms, testing the knowledge of the terminology
   Exam allows the student to prove his/her basic knowledge and understanding in the technological aspects of a ship
   Written preparation: approx. 1 hour; written preparation is handed in, but not evaluated
   Oral exam: 20-30 minutes

Eindscoreberekening
   100% oral exam

(Goedgekeurd)