# Course of Study Naval Architecture and Ocean Engineering (Study Cohort w16)

Sample course plan A Master Naval Architecture and Ocean Engineering (SBMS)

Legend:

| | | | |
|---|---|---|---|
| Core qualification Compulsory | Specialisation Compulsory | Focus Compulsory | Thesis Compulsory |
| Core qualification Elective Compulsory | Specialisation Elective Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

| LP | Semester 1 | Form | Hrs/wk | Semester 2 | Form | Hrs/wk | Semester 3 | Form | Hrs/wk | Semester 4 | Form | Hrs/wk |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Structural Analysis of Ships and Offshore Structures** | | | **Seakeeping of Ships and Laboratory on Naval Architecture (part 2)** | | | **Research Project Naval Architecture and Ocean Engineering** | | | **Master Thesis** | | |
| 2 | Structural Analysis of Ships and Offshore Structures | VL | 2 | Laboratory on Naval Architecture | FL | 2 | | | | | | |
| 3 | Structural Analysis of Ships and Offshore Structures | UE | 2 | **Maritime Technology and Maritime Systems (part 2)** | | | | | | | | |
| 4 | | | | Analysis of Maritime Systems | VL | 2 | | | | | | |
| 5 | | | | Analysis of Maritime Systems | UE | 1 | | | | | | |
| 6 | | | | **Numerical Methods in Ship Design (part 2)** | | | | | | | | |
| 7 | **Ship Vibration** | | | Numerical Methods in Ship Design | VL | 2 | | | | | | |
| 8 | Ship Vibration | VL | 2 | | | | | | | | | |
| 9 | Ship Vibration | UE | 2 | **Marine Diesel Engine Plants** | | | | | | | | |
| 10 | | | | Marine Diesel Engine Plants | VL | 3 | | | | | | |
| 11 | | | | Marine Diesel Engine Plants | HÜ | 1 | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | **Ship Safety** | | | **Special Topics of Ship Propulsionand Hydrodynamics of High Speed Water Vehicles** | | | **Innovative CFD Approaches** | | | | | |
| 14 | Ship Safety | VL | 2 | Special Topics of Ship Propulsion | VL | 3 | Application of Innovative CFD Methods in Research and Development | VL | 2 | | | |
| 15 | Ship Safety | HÜ | 2 | Hydrodynamics of High Speed Water Vehicles | VL | 3 | Application of Innovative CFD Methods in Research and Development | UE | 2 | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | **Ship propellers and cavitation** | | | **Advanced Ship Design** | | | | | |
| 18 | | | | Marine Propellers | VL | 2 | Advanced Ship Design | VL | 2 | | | |
| 19 | **Seakeeping of Ships and Laboratory on Naval Architecture (part 1)** | | | Marine Propellers | PBL | 2 | Advanced Ship Design | HÜ | 2 | | | |
| 20 | Seakeeping of Ships | VL | 2 | Cavitation | VL | 2 | | | | | | |
| 21 | Seakeeping of Ships | UE | 2 | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | **Maritime Technology and Maritime Systems (part 1)** | | | | | | | | | | | |
| 24 | Introduction to Maritime Technology | VL | 2 | | | | | | | | | |
| 25 | Introduction to Maritime Technology | UE | 1 | | | | | | | | | |
| 26 | **Numerical Methods in Ship Design (part 1)** | | | | | | | | | | | |
| 27 | Numerical Methods in Ship Design | PBL | 2 | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| | Business & Management (from catalogue) - 6LP | | | | | | | | | | | |
| | Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP | | | | | | | | | | | |

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.