

## Block view of the study programme

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### Block 1

Further Informations

#### Compulsory Courses

##### University of Liège - ANAST

##### Ship and Offshore Design, Structure and Production

CNAV0013-2	<i>Ship theory and offshore (static, dynamic and propulsion)</i> (english language) - André HAGE, Philippe RIGO	Q1	50	30	-	6
CNAV0014-2	<i>Ship and offshore structures and production (including 7 days technical visit)</i> (english language) - JeanDavid CAPRACE, Luc COURARD, Philippe RIGO - [7d FW]	Q1	40	60	[+]	8
CNAV0012-2	<i>Ship and offshore design, Project (including 2 days technical visit)</i> (english language) - André HAGE - [2d FW]	Q1	30	40	[+]	6
CNAV0016-2	<i>Electricity, Ship Equipments &amp; Diesel Motors</i> (english language) - Pierre DEWALLEF, André HAGE, Philippe NGENDAKUMANA - [1d FW]	Q1	20	20	[+]	2
CNAV0015-2	<i>Design of small crafts and high speed vessels</i> (english language) - André HAGE	Q1	40	-	-	3

##### Ecole centrale de Nantes ECN

##### Marine Hydrodynamics

HULG0337-1	<i>Water waves and sea state models</i> (english language) - G. DUCROZET	Q2	20	10	-	5
HULG0338-1	<i>Seakeeping : Theory and numerical modelling</i> (english language) - P. FERRANT, L. GENTAZ	Q2	20	15	-	5
HULG0339-1	<i>CFD for marine structures</i> (english language) - L. GENTAZ, D. LE TOUZE	Q2	30	35	-	6
HULG0340-1	<i>Multi-objective optimisation for ship design</i> (english language) - P.E. GUILLERM, D. LE TOUZE	Q2	10	30	-	4
HULG0341-1	<i>Experimental marine structures hydrodynamics</i> (english language) - F. BONNEFOY, P. FERRANT	Q2	20	20	-	5

##### Nantes ; by ECN and ULg

HULG0342-1	<i>Initiation to research and development, and Advanced Seminars(including ship vibrations and FSI by H. Le Sourne, ICAM Nantes)</i> (english language) - P. FERRANT, L. GENTAZ, André HAGE, Philippe RIGO	Q2	60	114	-	10
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### Block 2

Further Informations

#### Optional courses

Select one of the following modules in UGAL, UNIGE, URO, ZUT or ICAM)

##### University of Galati - UGAL (Romania)

##### Manoeuvring and Propulsion

HULG0370-1	<i>Ship manoeuvrability</i> (english language) - N...	Q1	-	-	-	5
HULG0371-1	<i>Ship propulsion</i> (english language) - N...	Q1	-	-	-	5
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	Q1	-	-	-	20

##### University of Genoa (Italy) - UNIGE

##### Sailing Yacht and Pleasure Motor Yacht

HULG0372-1	<i>Motor yacht design</i> (english language) - N...	Q1	-	-	-	5
HULG0373-1	<i>Sailing yacht design</i> (english language) - N...	Q1	-	-	-	5
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	Q1	-	-	-	20

**University of Rostock (Germany) - URO**

**CAD, Information, Technology and Marine Structures**

ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	Q1	-	-	-	20
HULG0376-1	<i>Information technology in ship design and production</i> (english language) - N...	Q1	-	-	-	4
HULG0377-1	<i>Sea loads on offshore structures</i> (english language) - N...	Q1	-	-	-	3
HULG9068-1	<i>Advanced analysis of marine structures</i> (english language) - N...	Q1	-	-	-	3

**University of West Pomeranian University of Technology (Poland) - ZUT**

**Advanced Marine Structures Design nad Production Technology**

HULG0374-1	<i>Advanced mechanics of ship and offshore structures</i> (english language) - N...	Q1	-	-	-	4
HULG9069-1	<i>Advanced design of ship and offshore structures</i> (english language) - N...	Q1	-	-	-	3
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	Q1	-	-	-	20

Choose one lecture :

HULG0375-1	<i>Advanced production technology of ship and offshore structures</i> (english language) - N...	Q1	-	-	-	3
HULG9284-1	<i>Motor Yacht Design</i> (english language)	Q1	-	-	-	3

**School of Mechanical and Manufacturing Engineering (France) - ICAM**

**Advanced Marine Structures Design nad Production Technology**

HULG0432-1	<i>Marine composite structure analysis</i> (english language) - N...	Q1	-	-	-	4
HULG0433-1	<i>Manufacturing and recycling of marine composite structures</i> (english language) - N...	Q1	-	-	-	6
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	Q1	-	-	-	20