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### Année unique

Semester 1 : University of Liege - ANAST

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

##### Cours obligatoires

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

Semester 2 : Ecole Centrale de Nantes - ECN

#### Marine Hydrodynamics

##### Cours obligatoires

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

Semester 2 (continuation) : Nantes

By ECN and ULg

##### Cours obligatoires

HULG0342-1	<i>Initiation to research and development, and advanced seminars</i> (anglais) - P. FERRANT, L. GENTAZ, André HAGE, Philippe RIGO	60	90	-	10
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Semester 3

#### Cours au choix

**Selected one of the following modules (30 credits) in UGAL, UNIGE, URO, ZUT or ICAM**

#### University of GALATI - UGAL

##### Manoeuvring and propulsion

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

#### University of GENOA - UNIGE

##### Sailing Yacht and Pleasure Motor Yacht

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

#### University of Rostock - URO

##### CAD, Information Technology and Marine Structures

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

#### WEST POMERANIAN UNIVERSITY of TECHNOLOGY - ZUT

**Advanced Marine Structures Design and Production Technology**

HULG0374-1	<i>Advanced mechanics of ship and offshore structures</i> (anglais) - N...	-	-	-	<b>4</b>
HULG0375-1	<i>Advanced production technology of ship and offshore structures</i> (anglais) - N...	-	-	-	<b>3</b>
HULG9069-1	<i>Advanced design of ship and offshore structures</i> - N...	-	-	-	<b>3</b>
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	-	-	-	<b>20</b>

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

**Advanced Marine Structures Design and Production Technology**

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