

## A single year

Semester 1 : University of Liege - ANAST

### Compulsory courses

CNAV0013-2	<i>Ship theory (static, dynamic and propulsion)</i> (english language) - André HAGE, Philippe RIGO	50	30	-	<b>6</b>
CNAV0014-2	<i>Ship Structures and ship production</i> (english language) - JeanDavid CAPRACE, Philippe RIGO - [7d FW]	40	60	[+]	<b>8</b>
CNAV0012-2	<i>Ship Design Project, Rules and Regulations</i> (english language) - André HAGE - [2d FW]	30	40	[+]	<b>6</b>
CNAV0016-2	<i>Electricity, Ship Equipments &amp; Diesel Motors</i> (english language) - André HAGE, Philippe NGENDAKUMANA - [1d FW]	20	20	[+]	<b>2</b>
CNAV0015-2	<i>Design of small crafts and high speed vessels</i> (english language) - André HAGE	40	-	-	<b>3</b>

Semester 2 : Ecole Centrale de Nantes - ECN

### Compulsory courses

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

Semester 2 (continuation) : Nantes

By ECN and ULg

### Compulsory courses

HULG0342-1	<i>Initiation to research and development, preparation to final project and technical visites</i> (english language) - P. FERRANT, L. GENTAZ, André HAGE, Philippe RIGO	60	90	-	<b>10</b>
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Semester 3

### Optional courses

Choose one module from :

#### University of GALATI - UGAL

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

#### University of GENOA - UNIGE

HULG0372-1	<i>Theory and design of motor yachts</i> (english language) - N...	-	-	-	<b>5</b>
HULG0373-1	<i>Theory and design of sailing yachts</i> - N...	-	-	-	<b>5</b>
ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	-	-	-	<b>20</b>

#### University of Rostock - URO

ATFE2007-1	<i>Internship and master thesis</i> - COLLÉGIALITÉ	-	-	-	<b>20</b>
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Choose two courses out of the following :

HULG0376-1	<i>Information technology in ship design and production</i> (english language) - N...	-	-	-	<b>5</b>
HULG0377-1	<i>Ship production</i> (english language) - N...	-	-	-	<b>5</b>
HULG9068-1	<i>Ocean engineering</i> (english language)	-	-	-	<b>5</b>

#### WEST POMERANIAN UNIVERSITY of TECHNOLOGY - ZUT

HULG0374-1	<i>Advanced ship structural mechanics</i> (english language) - N...	-	-	-	<b>4</b>
HULG0375-1	<i>Advanced ship structural design and technology</i> (english language) - N...	-	-	-	<b>3</b>

HULG9069-1	<i>Advanced ship structural design</i>	-	-	-	<b>3</b>
ATFE2007-1	<i>Internship and master thesis - COLLÉGIALITÉ</i>	-	-	-	<b>20</b>