

Block view of the study programme

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Block 1

Compulsory courses from the core curriculum (Uliece)

Lectures in Mechanical Engineering

MECA0018-2	<i>Manufacturing processes</i> (english language) - Yves MARCHAL - [15h Labo., 11h Proj., 0,5d FW]	Q2	30	-	[+]	5
MECA0029-1	<i>Theory of vibration</i> (english language) - Loïc SALLES - [30h Proj.]	Q1	26	26	[+]	5
MECA0462-2	<i>Materials selection</i> (english language) - Anne MERTENS, Davide RUFFONI - [30h Proj., 1d FW]	Q1	26	26	[+]	5
GEST3162-1	<i>Principles of management</i> (english language) - Michaël PARMENTIER, Willem STANDAERT - [25h Proj.]	Q1	30	-	[+]	5

Optional courses from the core curriculum

Courses to be chosen among the following list:

Lectures in Mechanical engineering

Notice : Preferential choices for students of the "Advanced Ship Design" are MECA0036-2 and MECA0027-1

MECA0036-2	<i>Finite Element Method</i> (english language) - JeanPhilippe PONTHOT - [40h Proj.]	Q2	26	26	[+]	5
MECA0027-1	<i>Structural and multidisciplinary optimization</i> (english language) - Pierre DUYSINX, Patricia TOSSINGS - [18h Proj.]	Q1	30	12	[+]	5
MECA0031-2	<i>Kinematics and dynamics of mechanisms</i> (english language) - Olivier BRULS - [40h Proj.]	Q2	30	20	[+]	5
MECA0023-1	<i>Advanced solid mechanics</i> (english language) - JeanPhilippe PONTHOT - [30h Proj.]	Q1	26	26	[+]	5
MECA0010-1	<i>Uncertainty quantification and stochastic modelling</i> (english language) - Maarten ARNST - [28h Proj.]	Q1	16	16	[+]	5

Focus courses

APRI0009-1	<i>Integrated Design Project of Ships, Small Crafts & High Speed vessels</i> (english language) - [150h Proj., 5d FW]	TA	80	-	[+]	15
CNAV0021-1	<i>Ship Theory : Statics and Dynamics</i> (english language)	Q2	32	20	-	5
CNAV0014-3	<i>Ship and offshore structures and production (including 7 days technical visit)</i> (english language) - [7d FW]	Q2	40	60	[+]	7
CNAV0022-1	<i>Ship Equipment and Propulsion Systems</i> (english language) - [1d FW]	Q2	20	20	[+]	3

Block 2

Compulsory courses from the core curriculum (Uliece)

Master Thesis and Internship

HULG9455-1	<i>Master Thesis</i> (english language)	-	-	-	-	25
HULG9456-1	<i>Internship in Companies or Laboratories</i> (english language)	-	-	-	-	5

Optional courses from the core curriculum

Choose a program at UPM, URO or ECN:

Polytechnic University of Madrid

Lectures in Offshore Renewable Energy

HULG9449-1	<i>Oceanology</i> (english language)	-	-	-	-	1,5
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HULG9450-1	<i>Structural Design of OWT</i> (english language)	-	-	-	8
HULG9451-1	<i>Electric Generation and Export Technologies</i> (english language)	-	-	-	5,5
HULG9452-1	<i>Manufacturing and Maritime Operations</i> (english language)	-	-	-	7
HULG9453-1	<i>Project Operation and Management</i> (english language)	-	-	-	4
HULG9454-1	<i>Structural Analysis of Offshore Platforms</i> (english language)	-	-	-	4

Ecole Centrale de Nantes (ECN) - France

Marine Hydrodynamics

HULG9411-1	<i>General concepts of hydrodynamics</i> (english language)	-	-	-	4
HULG9412-1	<i>Water Waves and Sea States Modeling</i> (english language)	-	-	-	4
HULG9413-1	<i>Wave-structure Interactions and Moorings</i> (english language)	-	-	-	5
HULG9414-1	<i>Numerical hydrodynamics</i> (english language)	-	-	-	5
HULG9415-1	<i>Experimental hydrodynamics</i> (english language)	-	-	-	5
HULG9416-1	<i>Naval engineering</i> (english language)	-	-	-	5
HULG9417-1	<i>Foreign language</i> (english language)	-	-	-	2

University of Rostock (URO) - Germany

Ship Technology - Ocean Engineering

Choose 30 credits:

HULG9418-1	<i>Theory and design of floating and founded offshore systems</i> (english language)	-	-	-	6
HULG9419-1	<i>Selected topics of the analysis of marine structures</i> (english language)	-	-	-	6
HULG9420-1	<i>Mathematical Models in ship theory</i> (english language)	-	-	-	6
HULG9421-1	<i>IT in ship design and production</i> (english language)	-	-	-	6
HULG9422-1	<i>Safety of ships under damaged conditions, in waves</i> (english language)	-	-	-	6
HULG9423-1	<i>Ocean Research technology</i> (english language)	-	-	-	6
HULG9424-1	<i>Team project</i> (english language)	-	-	-	6