Cycle view of the study programme

		Bl	Or	Th	Pr	Au	Cr

Courses in this focus are exclusively reserved for students enrolled in the full Erasmus Mundus programme over the two years of the master's degree. However, the courses are accessible to Erasmus students.

This Master's programme is organized by 7 European universities : more information.

Compulsory Courses (B1 : 44Cr, B2 : 45Cr)

The first year, the student takes the general courses at one of the universities mentioned below, in accordance with the mobility scheme as approved by the Steering Committee.

Universiteit Gent (Belgium)

For further information on the course programme offered

Dunarea de Jos University of Galati (UDJG, Roemenië)

HULG9863-1	*Ship Design and Structural Analysis* (english language)	B1	Q1	-	-	-	**5**
HULG9864-1	*Computational Fluid Dynamics I* (english language)	B1	Q1	-	-	-	**4**
HULG9865-1	*Analysis of Noise and Vibration* (english language)	B1	Q1	-	-	-	**4**
HULG9866-1	*Advanced Shipbuilding Technology* (english language)	B1	Q2	-	-	-	**5**
HULG9867-1	*Complements in Propulsion Dynamics* (english language)	B1	Q2	-	-	-	**5**
HULG9868-1	*Offshore Units and Systems* (english language)	B1	Q2	-	-	-	**5**
HULG9869-1	*Structural Analysis and Hydroelasticity* (english language)	B1	Q2	-	-	-	**5**
HULG9870-1	*Computational Fluid Dynamics II* (english language)	B1	Q2	-	-	-	**4**
HULG9871-1	*Research and Design Internship 2 (Project)* (english language)	B1	Q2	-	-	-	**7**

The second year, the student takes the general courses at University of Liège (ULiège, Belgium)

ATFE9013-1	*Master's Dissertation* (english language) - Thomas ANDRIANNE	B2	TA	-	-	-	**30**

Compulsory courses within the focus

MECA0533-1	*Technology of offshore wind structures* (english language)	B2	Q1	26	26	-	**5**
MECA0534-1	*Fluid structures interactions of offshore environment* (english language) - Thomas ANDRIANNE - [12h Labo.]	B2	Q1	20	16	[+]	**5**
MECA0535-1	*Structural health monitoring* (english language)	B2	Q1	26	26	-	**5**

Elective courses (B1 : 16Cr, B2 : 15Cr)

Subscribe to 12 credit units from the following list. Subject to approval by the faculty of Dunarea de Jos University of Galati (UDJG, Roemenië). (B1 : 12Cr)

Notice : students with a background in naval architecture take the courses with reference a. Students without a background in naval architecture take the courses with reference b.

HULG9872-1	*Unconventional Materials (a)* (english language)	B1	Q1	-	-	-	**5**
HULG9873-1	*Research and Design Internship 1 (Project) (a)* (english language)	B1	Q1	-	-	-	**7**
HULG9874-1	*Ship Dynamics 1 (b)* (english language)	B1	Q1	-	-	-	**5**
HULG9875-1	*Ship Hydrostatics and Stability (b)* (english language)	B1	Q1	-	-	-	**4**
HULG9876-1	*Ship Resistance (b)* (english language)	B1	Q1	-	-	-	**3**

Subscribe to 4 credit units from the following list. Subject to approval by the faculty of Dunarea de Jos University of Galati (UDJG, Roemenië). (B1 : 4Cr)

Notice : students with a background in naval architecture take the courses with reference a. Students without a background in naval architecture take the courses with reference b.

HULG9877-1	*Project Management (a)* (english language)	B1	Q2	-	-	-	**4**

HULG9878-1	*The Marine Environmental Protection Technologies (a)* (english language)	B1	Q2	-	-	-	**4**
HULG9879-1	*Commissioning (a)* (english language)	B1	Q2	-	-	-	**5**
HULG9880-1	*Ship Dynamics 2 (Manoeuvring) (b)* (english language)	B1	Q2	-	-	-	**4**

Subscribe to 15 credit units from the following list of ULiège's focus. (B2 : 15Cr)

Notice : students must choose between MECA0058-1 or MECA0036-2, depending on their previous experience.

Notice : students must choose between MECA0062-1 or MECA0029-1, depending on their previous experience

MECA0010-1	*Uncertainty quantification and stochastic modelling* (english language) - Maarten ARNST - [28h Proj.]	B2	Q1	16	16	[+]	**5**
MECA0027-1	*Structural and multidisciplinary optimization* (english language) - Pierre DUYSINX, Patricia TOSSINGS - [18h Proj.]	B2	Q1	30	12	[+]	**5**
MECA0502-1	*Mechanics of composites* (english language) - Michaël BRUYNEEL	B2	Q1	26	26	-	**5**
MECA0058-1	*Fracture mechanics, damage and fatigue* (english language) - Ludovic NOELS - [75h Proj.]	B2	Q1	30	10	[+]	**5**
MECA0036-2	*Finite Element Method* (english language) - JeanPhilippe PONTHOT - [40h Proj.]	B2	Q2	26	26	[+]	**5**
MECA0062-1	*Vibration testing and experimental modal analysis* (english language) - Loïc SALLES - [30h Proj.]	B2	Q1	26	26	[+]	**5**
MECA0029-1	*Theory of vibration* (english language) - Loïc SALLES - [30h Proj.]	B2	Q1	26	26	[+]	**5**