

Manifesto of Studies for Naval Architecture and Marine Engineering master degree

Class of master Degrees in Industrial Engineering, Class N. LM-34 AY 2026/27

Course Title	Module (if any)	ECTS	SSD	TAF	Prerequisite
I Year I semester					
<i>Probability and Statistics</i>		6	STAT-01/B ex SECS-S/02	C	
<i>Ship Equipment</i>		9	IIND-01/B ex ING-IND/02	B	
<i>Naval Architecture</i>	<i>Naval Architecture I</i>	9	IIND-01/A ex ING-IND/01	B	
I Year II semester					
<i>Naval Architecture</i>	<i>Naval Architecture II</i>	6	IIND-01/A ex ING-IND/01	B	
<i>Ship Seakeeping</i>		9	IIND-01/A ex ING-IND/01	B	
<i>Ship Propulsion</i>		9	IIND-01/B ex ING-IND/02	B	
<i>Characterizing training activities chosen by the student from table A (I o II semester)</i>		0 - 6	IIND-01/A ex ING-IND/01 IIND-01/B ex ING-IND/02 IIND-03/B ex ING-IND/15	B	
<i>Training activities autonomously chosen by the student (see note a)</i>		0 - 12		D	
II Year I semester					
<i>Marine Auxiliary Plants</i>		9	IIND-01/B ex ING-IND/02	B	<i>Ship Propulsion</i> <i>Naval Architecture</i>
<i>Marine Electrical Systems</i>		9	IIND-08/B ex ING-IND/33	C	
<i>Ship Structural Design and Ship Safety</i>	<i>Naval Constructions II</i>	6	IIND-01/B ex ING-IND/02	B	
	<i>Rules and Safety of the Ship</i>	6	IIND-01/B ex ING-IND/02	B	
II Year II semester					
<i>Ship Design</i>		6	IIND-01/A ex ING-IND/01	B	<i>Naval Architecture</i>
<i>Characterizing training activities chosen by the student from table A (I o II semester)</i>		6 - 0	IIND-01/A ex ING-IND/01 IIND-01/B ex ING-IND/02 IIND-03/B ex ING-IND/15	B	
<i>Training activities autonomously chosen by the student (see note a)</i>		12 - 0		D	
<i>Training activities Art. 10 Coma 5 MD 270/2004 (Further knowledge - see note b)</i>		6		F	
<i>Training activities Art. 10 Coma 5 MD 270/2004 (Additional language skills)</i>		3		E	
<i>Final test</i>		9		E	

Legend of the types of training activities under DM 270/04

A = Basic

B = Characterising

C = Related or Supplementary

D = At the student's choice

E = Final examination and language knowledge

F = Further training activities

NOTES

- a) If the courses are chosen from Tables A or B, the study plan is automatically approved, but it must still be submitted to the Didactic Coordination Commission. In other cases, the study plan must be approved by the CCD.
- b) Further training activities include 3 credits for further linguistic knowledge and 6 of internship. Students who have certification of knowledge of a European Union language at least at B2 level at the time of enrollment can request recognition of the 3 CFU required for Further Linguistic Knowledge. Further knowledge can be acquired through intramoenia internship or extramoenia internship. The latter is carried out in companies, research centers or other public and/or private bodies and aims to acquire specialist knowledge with the support of personnel involved in the design, production and management of production or research plants, in order to have a first approach to the working world. The intramoenia internship can be carried out in university research laboratories to acquire specialist knowledge by working alongside teaching and research staff in conducting research and development activities. In all cases, the activity can be preparatory to the thesis work and the fulfillment of these tasks must be certified through the acquisition of the AC form countersigned by the teacher responsible for the internship activity or by the supervisor of the degree thesis. The training activities of the art. 10 paragraph 5 Ministerial Decree 270/2004 (further knowledge) can also be acquired by the student by following seminars accredited by the CdS in Naval Architecture and Marine Engineering.

Table A: training activities characterizing Naval Architecture and Marine Engineering chosen by the student (TAF B)

Title Course	Semester	ECTS	SSD	From	Notes and prerequisites
Design for Additive Manufacturing	II	6	IIND-03/B ex ING-IND/15	LM Naval Architecture and Marine Engineering	
Geometric Modeling of Free Shapes	I	6	IIND-03/B ex ING-IND/15	LM Naval Architecture and Marine Engineering	
Ship Stability II	I	6	IIND-01/A ex ING-IND/01	LM Naval Architecture and Marine Engineering	
Experimental Methods in Naval Architecture	II	6	IIND-01/A ex ING-IND/01	LM Naval Architecture and Marine Engineering	
Naval Vessels	I	6	IIND-01/B ex ING-IND/02	LM Naval Architecture and Marine Engineering	Only second year
Offshore Constructions	I	6	IIND-01/B ex ING-IND/02	LM Naval Architecture and Marine Engineering	
Numerical Methods for Naval Architecture	II	6	IIND-01/A ex ING-IND/01	LM Naval Architecture and Marine Engineering	

Table B: Training activities autonomously chosen by the student (TAF D)

Title Course	Semester	ECTS	SSD	From	Notes and prerequisites
Structural Mechanics II	II	6	CEAR-06/A ex ICAR/08	LM Naval Architecture and Marine Engineering	
Heating, Ventilating, Air Conditioning Systems	II	9	IIND-07/A ex ING-IND/10	LM Mechanical Engineering for Energy and Environment	
Navigation Systems for Maritime Surveillance	II	6	IIND-01/E ex ING-IND/05	LM Naval Architecture and Marine Engineering	
Mathematical Models for Engineering (in English)	I	9	MATH-03/A ex MAT/05	LM Aerospace Engineering	
Machine Design	II	6	IIND-03/A ex ING-IND/14	LM Naval Architecture and Marine Engineering	
Design Principles For Wind And Ocean Renewable Energy Systems	I	6	IIND-01/C ex ING-IND/03	LM Aerospace Engineering	
Hydrodynamics II	I	6	CEAR-01/A ex ICAR/01	LM Naval Architecture and Marine Engineering	Only first year
Energy Sustainability in Smart Transportation and Infrastructures (in English)	II	9	IIND-07/A ex ING-IND/10	LM Mechanical Engineering for Energy and Environment	