



Romanian Naval Academy, RNA  
1st Fulgerului Street, Constanta, Romania  
www.anmb.ro/eng



## FACULTY FOR NAVIGATION AND NAVAL MANAGEMENT

# COURSE CATALOGUE FOR ERASMUS+ PROGRAM IN ROMANIAN NAVAL ACADEMY

ACADEMIC YEAR of 2023-2024

NAVIGATION AND MARITIME TRANSPORTS - UNDERGRADUATES STUDY PROGRAM - 4 YEARS					
Code	Course title in English	Course title in Romanian	Year of study	Semester	ECTS
NTMF-108	Navigation Basics I	Bazele navigației I	1 <sup>st</sup>	FALL	6
NTMF-108	Navigation Basics II	Bazele navigației II	1 <sup>st</sup>	SPRING	5
NTMF-107b	Applied Informatics I	Informatica aplicata I	1 <sup>st</sup>	FALL	4
NTMF-107b	Applied Informatics II	Informatica aplicata II	1 <sup>st</sup>	SPRING	3
NTMF-106	Technical Drawing and Infographics	Desen tehnic si infografica	1 <sup>st</sup>	SPRING	3
NTMF-201	Special Chapters of Mathematics	Matematici speciale	2 <sup>nd</sup>	FALL	4
NTMF-202	Numerical Methods	Metode numerice	2 <sup>nd</sup>	SPRING	3
NTMF-212	Navigational Watchkeeping I	Proceduri de executare a cartului de navigatie I	2 <sup>nd</sup>	FALL	4
NTMF-207	Ship Theory and Ship Building	Teoria si constructia navei	2 <sup>nd</sup>	FALL	4
NTMF-208	Project Ship Theory and Ship Building	Proiect Teoria si constructia navei	2 <sup>nd</sup>	SPRING	1
NTMF-211	Celestial Navigation I	Navigatie astronomica I	2 <sup>nd</sup>	FALL	5
NTMF-211	Celestial Navigation II	Navigatie astronomica II	2 <sup>nd</sup>	SPRING	3
NTMF-213	Maritime English I	Limba engleza maritima I	2 <sup>nd</sup>	FALL	2
NTMF-213	Maritime English II	Limba engleza maritima II	2 <sup>nd</sup>	SPRING	2
NTMF-304	Meteorology and Oceanography I	Meteorologie și oceanografie I	3 <sup>rd</sup>	FALL	4

NTMF-305	Project meteorology and oceanography	Proiect Meteorologie și oceanografie	3 <sup>rd</sup>	FALL	1
NTMF-304	Meteorology and Oceanography II	Meteorologie și oceanografie II	3 <sup>rd</sup>	SPRING	5
NTMF-303	Navigation equipment and systems I	Echipamente si sisteme de navigatie I	3 <sup>rd</sup>	FALL	5
NTMF-303	Navigation equipment and systems II	Echipamente si sisteme de navigatie II	3 <sup>rd</sup>	SPRING	5
NTMF-312	Radar Navigation	Navigatie radar	3 <sup>rd</sup>	SPRING	4
NTMF-313	Project Radar Navigation	Proiect Navigatie radar	3 <sup>rd</sup>	SPRING	1
NTMF-314	Maritime English III	Limba engleza maritima III	3 <sup>rd</sup>	FALL	2
NTMF-314	Maritime English IV	Limba engleza maritima IV	3 <sup>rd</sup>	SPRING	2
NTMF-302	Electronics and automatics	Electronică și automatizări	3 <sup>rd</sup>	FALL	4
NTMF-311	Naval Communications	Comunicatii navale	3 <sup>rd</sup>	FALL	4
NTMF-309 a	Automatic Control	Teoria sistemelor automate	3 <sup>rd</sup>	FALL	4
NTMF-310 a	Naval Machines and Equipment	Masini si instalatii navale	3 <sup>rd</sup>	SPRING	4
NTMF-4101	Maritime Transports II	Tehnica transportului maritim II	4 <sup>th</sup>	FALL	4
NTMF-4105	Navigational Watchkeeping II	Proceduri de executare a cartului de navigatie II	4 <sup>th</sup>	FALL	4
NTMF-4106	Shiphandling II	Manevra navei II	4 <sup>th</sup>	FALL	4
NTMF-4117	Maritime Economics	Economia transportului maritim	4 <sup>th</sup>	FALL	4
NTMF-4119	Management and Marketing	Management si marketing	4 <sup>th</sup>	FALL	4
NTMF-4107	Electronic navigation	Naviație electronică	4 <sup>th</sup>	FALL	4
NTMF-4113	Maritime English V	Engleza maritima V	4 <sup>th</sup>	FALL	2
NTMF-4214	Maritime English VI	Engleza maritima VI	4 <sup>th</sup>	SPRING	2
NTMF-4209	Maritime Search and Rescue	Cautare si salvare pe mare	4 <sup>th</sup>	SPRING	4

**Head of Department**

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ACADEMIC YEAR of 2023-2024

NAVAL AND PORT ENGINEERING AND MANAGEMENT - ENGINEERING UNDERGRADUATE STUDY PROGRAM - 4 YEARS					
Code	Course title in English	Course title in Romanian	Year of study	Semester	ECTS
IMNP-108	Technical Drawing I	Desen tehnic și infografică I	1st	Spring	3
IMNP-103	Applied Informatics I	Informatică aplicată	1st	Fall	3
IMNP-103	Applied Informatics II	Informatică aplicată	1st	Spring	3
IMNP-106	Fundamentals of Economics	Bazele economiei	1st	Fall	3
IMNP-112	English Language I (naval and port terminology)	Limba engleză	1st	Fall	2
IMNP-112	English Language II (naval and port terminology)	Limba engleză	1st	Spring	2
IMNP-107	Chemistry	Chimie	1st	Spring	3
IMNP-201	Special Chapters of Mathematics	Matematici speciale	2nd	Fall	5
IMNP-204	Marketing	Marketing	2nd	Fall	4
IMNP-213	Naval Transportation and Port Administration	Organizarea transporturilor navale și a sistemului portuar	2nd	Spring	4
IMNP-202	Technical Drawing II	Desen tehnic și infografică II	2nd	Fall	4
IMNP-203	Numerical methods	Metode numerice	2nd	Spring	4
IMNP-207	Fluid mechanics	Mecanica fluidelor	2nd	Spring	3
IMNP-214	English Language III (business terminology)	Limba engleză III	2nd	Fall	2
IMNP-214	English Language IV (business terminology)	Limba engleză IV	2nd	Spring	2
IMNP-308	Basics of Accounting	Contabilitate	3rd	Spring	3
IMNP-311b	Finance management	Managementul finanțelor	3rd	Fall	4

IMNP-306	Operations Management	Organizarea producției	3rd	Fall	4
IMNP-310a	Human Resource Management	Managementul resurselor umane	3rd	Fall	3
IMNP-303	Quality management	Managementul calității	3rd	Spring	3
IMNP-307	Information systems in management	Sisteme informatice în management	3rd	Spring	3
IMNP-313	Renewable energy systems	Surse de energie regenerabilă	3rd	Fall	3
IMNP-408	Maritime Law	Drept maritim	4th	Fall	3
IMNP-4159	Maritime Economics and International Shipping 1	Economia transporturilor și expediții internaționale I	4th	Fall	5
IMNP-4260	Maritime Economics and International Shipping 2	Economia transporturilor și expediții internaționale II	4th	Spring	4
IMNP-4167a	Project Management	Managementul proiectelor în industria navală	4th	Fall	5
IMNP-4157	Maritime Transports	Transport maritim	4th	Fall	4
IMNP-4166a	Transport logistics	Logistica transporturilor	4th	Fall	4
IMNP-4261	Management of Maintenance Operations	Managementul mentenanței	4th	Spring	4
IMNP-4262	Entrepreneurship	Antreprenoriat	4th	Spring	4

**Head of Department**

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## FACULTY FOR MARINE ENGINEERING

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ACADEMIC YEAR of 2023-2024

ELECTRICAL ENGINEERING - ENGINEERING UNDERGRADUATE STUDY PROGRAM - 4 YEARS					
Code	Course title in English	Course title in Romanian	Year of study	Semester	ECTS
E-108	Mechanics	Mecanică	1st	Fall	3
E-105	Computer aided design	Grafica asistata pe calculator	1st	Spring	5
E-206	Analogic electronics	Electronică analogică	2nd	Fall	5
E-207	Digital electronics	Electronică digitală	2nd	Spring	4
E-201	Advance matematics	Matematici speciale	2nd	Fall	5
E-301	Electric machines	Mașini electrice	3rd	Fall	5
E-301	Electric machines	Mașini electrice	3rd	Spring	6
E-304	The Theory of Systems	Teoria sistemelor	3rd	Fall	5
E-312	Movers and Auxiliary Machinery	Mașini și instalații navale	3rd	Spring	3
E-308	Microcontrollers and programmable controllers	Microcontrolere și automate programabile	3rd	Spring	3
E-309	Production and distribution of electricity	Producerea și distribuția energiei electrice	3rd	Spring	4
EC-4207	Maritime Electrical Propulsion Systems	Sisteme de propulsie electrica navala	4th	Spring	4
EC-4206	Electrical navigation equipment	Aparate electrice de navigaie	4th	Fall	4
EC-4115b	Electronic navigation systems	Sisteme electronice de navigatie	4th	Fall	4
EC-4205	Ship electrical installations	Instalații electrice de bord	4th	Spring	5

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## FACULTY FOR MARINE ENGINEERING

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### ACADEMIC YEAR of 2023-2024

NAVAL ELECTROMECHANICS - ENGINEERING UNDERGRADUATE STUDY PROGRAM - 4 YEARS					
Code	Course title in English	Course title in Romanian	Year of study	Semester	ECTS
EN-101	Linear Algebra, Analytical And Differential Geometry	Algebra Liniară, Geometrie Analitică și Diferențială	1st	Fall/Spring	2/3
EN-102	Mathematical Analysis	Analiza Matematică	1st	Fall/Spring	2/4
EN-104	Physics	Fizică	1st	Fall	5
EN-105	Chemistry	Chimie	1st	Fall	4
EN-106	Technical Drawing	Desen tehnic și infografică	1st	Spring	4
EN-107	Applied Informatics	Informatică Aplicată	1st	Fall/Spring	5/4
EN-113	English	Limba Engleză	1st	Fall/Spring	2/2
EN-115a	Fundamentals of Economy	Economie generală	1st	Fall	2
EN-116a	Renewable Energy Sources	Surse de Energie Regenerabile	1st	Spring	2
EN-201	Special mathematics	Matematici speciale	2nd	Fall	5
EN-202	Numerical Methods	Analiza Numerică	2nd	Spring	4
EN-204	Mechanical Processing and Dimensional	Prelucrări mecanice și control dimensional	2nd	Fall/Spring	4/4
EN-207	Hydrodynamics	Hidrodinamică	2nd	Fall	4
EN-206	Strength of materials	Rezistența materialelor	2nd	Spring	3
EN-213	English	Limba engleză III	2nd	Fall/Spring	2
EN 211	Maritime law	Drept maritim internațional	2nd	Fall	2
EN 217b	Naval Fuels. Emissions and combustion	Combustibili navali. Ardere și emisii	2nd	Spring	2
EN-3101	Hydraulics and pneumatics machines	Mașini hidraulice și pneumatice	3rd	Fall	5

EN-3202	Hydraulics drive	Accionari hidraulice	3rd	Spring	4
EN-3203	Static converters	Convertoare statice	3rd	Spring	3
EN-3204	Electronic and automated	Electronică și automatizări	3rd	Spring	4
EN-3105	Automated systems theory	Teoria sistemelor automate	3rd	Fall	3
EN-3206	Electrical drive	Actionări electrice	3rd	Spring	4
EN-3107	Software Packages for Fully Automated Ships	Programe soft pentru nave complet automatizate	3rd	Fall	4
EN-3108	Electrical machines	Mașini electrice	3rd	Fall	3
EN-3109	Steam systems	Instalații de abur navale	3rd	Fall	5
EN-3210	Steam and Gas Tubines	Turbine cu abur și gaze	3rd	Spring	6
EN-3114/ EN-3215	English	Limba engleza	3rd	Fall/Spring	2 / 2
EN-3116a	Prevention of environmental pollution	Prevenirea poluării mediului	3rd	Fall	2
EN-3217a	Combined propulsion systems	Sisteme de propulsie combinată	3rd	Spring	2
EN-4201	Ship's safety and security	Siguranța și securitatea navei	4th	Spring	3
EN-4102/ EN-4203	Technology of maintenance and repair of machinery and ship system	Tehnologia întreținerii și reparării mașinilor și instalațiilor navale	4th	Fall/Spring	7 / 5
EN-4104/ EN-4205	Naval Refrigeration Systems and Air Condition	Instalații frigorifice și de condiționare a aerului	4th	Fall / Spring	4 / 3
EN-4206	Control systems for machinery and ship system	Sisteme de comandă pentru mașini și instalații navale	4th	Spring	4
EN-4108/ EN-4209	Naval Mechanical and Hydropneumactical Systems	Instalații mecanice și hidropneumatice navale	4th	Fall / Spring	5 / 6
EN-4110	Leadership	Leadership	4th	Fall	4
EN-4113a	Maritime logistics	Logistica navală	4th	Fall	5
EN-4214a	Engine Room Watchkeeping	Executarea în sig. a cartului la mașini – proceduri de siguranță și urgență	4th	Spring	7

**Head of Mechanical Engineering Department**

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