

TEACHING CURRICULA

2010-2014

CONSTANTA MARITIME UNIVERSITY

Faculty Navigation and Naval Transport
Domain Naval Engineering and Navigation
Specialization Navigation and Maritime and River Transport
Study years 4 years

Requirements for obtaining the Engineer Diploma

240 cre credits for the mandatory subjects
Passing the Bachelor's Degree Exam

In order to obtain, through contest, a job in the educational system (elementary, middle, higher education), the graduate must possess the graduation certificate released by the "Department for the training of the teaching staff"

II. The structure of the academic year (weeks)

	Teaching activities		Exam session			Practice	Breaks		
	Sem. I	Sem. II	Winter	Summer	Arrears		Winter	Spring	Summer
Ist Year of	14	14	4	4	2	2	2	1	7
IInd Year of	14	14	4	4	2		2	1	10
IIIrd Year of	14	14	4	4	2		2	1	10
IVth Year of		14	4	4	2	14	2	1	10

III. Number of weekly hours

YEAR	I Semester	II Semester
I	30	30
II	30	30
III	30	29
IV	24	30

IV. Selection of the optional courses

From the two packages of optional subjects, the student will choose one, which will become mandatory. The content of the optional packages will be made public by the Department of Navigation and Maritime Transport"

V. Conditions for the enrolment in the following year of study. Promotion conditions. Conditions for the re-enrolment

According to the regulations regarding the students' professional activity

VI. Bachelor's Degree Exam

1. 25 June - 10 July.

RECTOR

Prof. CORNEL PANAIT, Ph.D.

DEAN

Assoc.Prof. GHIORGHE BATRINCA, Ph.D.

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TEACHING CURRICULA 2010-2014
1st year

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Code	Category	Type	Discipline	1st semester					2nd semester							
				No. of hours/week (14 weeks)				Examination form	Credits	No. of hours/week (14 weeks)				Examination form	Credits	
				C	S	L	P			C	S	L	P			
TM.1.1.1	DI	DF	Linear Algebra, Analytical and Differential Geometry	3	2			E	5							
TM.1.1.2	DI	DF	Descriptive Geometry	1		1		C	2							
TM.1.1.3	DI	DF	Technical Drawing and Infographics	1		1		C	2							
TM.1.1.4	DI	DF	Chemistry	2		1		C	3							
TM.1.1.5/TM.1.2.1	DI	DF	Mathematics Analysis I	3	2			E	4	3	2			E	5	
TM.1.1.6/TM.1.2.2	DI	DF	Computer Science	2		1		E	3	2	1	1		E	4	
TM.1.2.3	DI	DF	Physics							2	1	1		E	4	
TM.1.1.7/ TM.1.2.4	DI	DD	Seamanship	2		1		E	3	2		2		E	4	
TM.1.2.5	DO	DD	Thermodynamics							2	1			C	3	
TM.1.1.8/TM.1.2.6	DI	DS	Coastal Navigation	2	1	1		E	5	3	2		2	E+P	5	
TM.1.1.9/TM.1.2.7	DI	DC	Maritime English		2			C	2		2			C	2	
TM.1.1.10/TM.1.2.8	DI	DC	Physical Training		1			C	1		1			C	1	
TM.1.2.9	DI	DD	Seamanship Training (2 weeks x 30 hour)											C	2	
TM.1.1.10/TM.1.2.10	DF	DC	English Language		3			C	3		3			C	3	
TM.1.2.11	DF	DS	Seamanship Training (2 weeks x 28 hours)											C	2	
TM.1.1.11	DF	DS	Personal Survival Techniques		1			C	1							
TM.1.1.12	DF	DS	Fire Fighting	2		2		C	3							
TM.1.1.12	DF	DS	Medical First Aid							2				C	2	
TM.1.1.13	DF	DS	Personal Safety and Social Responsibilities Onboard							1		1		C	2	
Total hours per week				16	8	6	0			30	14	10	4	2		30

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TEACHING CURRICULA 2010-2014
2nd year

Code	Category	Type	Discipline	1st semester					2nd semester						
				No. of hours/week (14 weeks)				Examination form	Credits	No. of hours/week (14 weeks)				Examination form	Credits
				C	S	L	P			C	S	L	P		
TM.2.1.1	DI	DF	Advanced Mathematics	2	3			E	4						

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TM.2.2.1	DI	DF	Numerical Methods							2	1				C	3
TM.2.1.2	DI	DD	Mechanics	2	1			E	3							
TM.2.1.3	DI	DD	Electronics and Electrical Machines	2		1		E	3							
TM.2.1.6/TM.2.2.2	DI	DD	Maritime Meteorology and Hydrology	2	1	1		E	3	3	1	1			E	5
TM.2.2.3	DO	DD	Mechanical Engineering-Basics							2	2				C	4
			Strength of Materials, Machine Elements													
TM.2.2.4	DI	DD	Theory, Construction and Vitality of Ships 1							2		1			E	3
TM.2.2.5	DO	DD	Hydrodynamics and Theory of Waves							1	1				C	2
			Fluid Mechanics													
TM.2.1.5.	DO	DD	Electrical Navigation Apparatus	2	1			C	3							
			Radioelectronics and Radiocommunications Equipments													
TM.2.1.6.	DI	DD	Naval Systems	1	1			C	2							
TM2.1.7/TM.2.2.6	DI	DS	Ship Handling	2	1			E	4	2	2				E	4
TM.2.1.8/TM.2.2.7	DI	DS	Astronomy and Celestial Navigation	2	1	1		E	5	2	1	1	1		E+P	5
TM.2.1.9/TM.2.2.8	DI	DC	Maritime English		2			C	2		2				C	2
TM.2.1.10	DI	DC	Physical Training		1			C	1							
TM.2.2.9	DI	DC	Sail ship Training							1	1				C	2
TM.2.1.11/TM.2.2.10	DF	DC	English Language		3			C	3		3				C	3
TM.2.1.12	DF	DS	Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats	1		1		C	2							
TM.2.1.13	DF	DS	Transport and Handling of Dangerous, Hazardous anc	1		1		C	2							
TM.2.2.11	DF	DS	Marine Pollution Prevention							1		1			C	2
Total hours per week										15	11	3	1			
				15	12	3	0			30	30					30

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TEACHING CURRICULA 2010-2014
3rd year

Code	Category	Type	Discipline	1st semester					2nd semester							
				No. of hours/week (14 weeks)				Examination form	Credits	No. of hours/week (14 weeks)				Examination form	Credits	
				C	S	L	P			C	S	L	P			
TM.3.1.1	DI	DD	Theory, Construction and Vitality of Ships 2	2	2			E	4							
TM.3.1.2	DI	DD	Electronic Devices	2	1			C	3							
TM.3.2.1	DI	DD	Transducers and Electric Measurement							1		2		C	3	
TM.3.1.3	DO	DD	Global Maritime Distress and Safety System	2		1		C	3							
TM.3.1.4.			Introduction to Radiolocation													

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TM.3.1.4	DI	DD	Ship Management and Administration 1	3	1			C	3						
TM.2.1.4	DI	DS	International Rules for Collision Avoidance 1	2		1		E	3						
TM.3.2.2	DO	DS	Rules of the road Accident Investigations							2	1	1		E	4
TM.3.1.6	DI	DS	Electronic Navigation	2	1	1		E	4						
TM.3.1.7/TM.3.2.3	DI	DS	Radar Navigation	2	1	1		E	5	2		2		E	4
TM.3.1.8	DO	DD	International Maritime Conventions and Organizations European Legislation in Maritime Transport	2	1			E	3						
TM.3.2.4	DO	DS	Navigation in Special Conditions Orthodromic Navigation							2		1		C	3
TM.3.2.5	DI	DS	Cargo Works 1							2	1		1	E	4
TM.3.2.6	DI	DS	Bridge Team Management							1		2		E	4
TM.3.2.7	DI	DS	Maritime Law							2	1			C	3
TM.3.2.8	DI	DS	Management of Ships Commercial Operations 1							2	1			E	3
TM.3.1.9/TM.3.2.10	DI	DC	Maritime English		2			C	2		2			C	2
TM.3.1.10	DF	DS	Safety and Security Systems at Sea	2		3		C	5						
TM.3.1.11/TM.3.2.11	DF	DC	English Language		3			C			3			C	3
Total hours per week				17	9	4	0			14	6	8	1		30
				30					30	29				30	

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TEACHING CURRICULA 2010-2014
 4th year

Code	Category	Type	Discipline	1st semester					2nd semester						
				No. of hours/week (14 weeks)				Examination form	Credits	No. of hours/week (14 weeks)				Examination form	Credits
				C	S	L	P			C	S	L	P		
TM.4.1.1	DI	DD	Onboard Ship Training			20		C	29						
TM.4.1.2	DI	DS	Training for Graduation Paper (2 weeks x 30 hours)					C	1						
TM.4.2.1	DI	DD	Automatic Systems Theory							2	1			C	3
TM.4.2.2	DO	DD	Marine Machinery Marine Ecology							2	1			C	3
TM.4.2.3	DI	DD	Ship Management and Administration 2							3	3			E	3
TM.4.2.4	DI	DS	Maritime Law 2							2	1			E	3
TM.4.2.5	DI	DS	Cargo works 2							2	1		1	E+P	4

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TM.4.2.6	DI	DS	Management of Ships Commercial Operations 2							2	1			E	3
TM.4.2.7	DI	DS	Coastal Navigation 2							2		1	1	E+P	5
TM.4.2.8	DI	DS	Voyage Planning and Execution							1		1		C	4
TM.4.2.9	DI	DC	Maritime English								2			C	2
TM.4.2.10	DF	DC	English Language								3			C	3
TM.4.2.11	DI	DS	Graduation Exam												10
Total hours per week						0	0	20	0		16	10	2	2	
						20				30	30			30+10	

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GENERAL BALANCE					
Nr. crt.	Subjects	No. of hours	%	No. of credits	%
1	Total number of hours	3326	100	240	100
2	Of which practice hours	240	7.22%	-	-
3	Fundamental subjects	574	17.26%	40	16.67%
4	Engineering subjects specific to the field	1306	39.27%	92	38.33%
5	Specialization subjects	1180	35.48%	90	37.50%
6	Complementary subjects	266	8.00%	18	7.50%
7	Number of course hours	1498			
8	Total no. of seminar + laboratory +project+practice hours	1828			
9	Ratio course hours / application hours	82%			

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DIN CONSTANȚA

Assoc. prof. GHIORGHE BATRINCA, Ph.D.

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