

საქართველოს ეკონომიკისა და მდგრადი განვითარების სამინისტრო

BATUMI STATE MARITIME ACADEMY ბათუმის სახელმწიფო საზღვაო აკადემია



Maritime Navigation

Brief Description of the Educational Program



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Educational Level	Bachelor	
Educational Program Title	Maritime Navigation	
<i>Qualification to be Awarded/Academic Degree</i>	Bachelor of Nautical Sciences	
Educational Program Leader	Alexander Tsetskhladze, Associate Professor Givi Tsitskishvili, Associate Professor	
Place of the Implementation of the Prog ram	Batumi, 53 Rustaveli Avenue E-mail:	
Teaching Form	Full – time study - 4 academic years (8 academic semesters)	
Program Volume	-240 ECTS	
Prerequisites/Entry Standards	<i>The right to study without passing the Unified National Exams is defined in accordance with the Law on Higher Education</i>	
Teaching Language	English	
Teaching Format	<i>Lecture, group work, seminar, practical training, laboratory works, sea-going training</i>	

8.0



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The program aims are:

1. To prepare national (industrial characteristic "Maritime Navigation") and assistant and marine vessel handling navigator, who on the bases of recognized experience and appropriate training can gradually gain a position of the high rank of an ocean-shipping vessel in accordance with the requirement of international standard convention - STCW (A-II/1, A-II/2, A-II/3).

2. To prepare a specialist oriented on practical work, who can identify navigational threats, solve problems and have critical thinking in the scopes of his/her competence.

3. To equip a graduate with professional skills of ship constructions, stability and technical service, to give the knowledge of acting marine conventions and accomplish safe navigation control and management according to the legislation, to develop leadership and group working skills.

Aim of the Program

4. To prepare a specialist having navigational, watch keeping, communication and cargo shipping organizational planning skills, also safe cargo professional shipping skills, in accordance with the international requirements for sea pollution prevention and safe navigation.

5. To prepare a specialist, who will have readiness and reaction over emergency situations, managing a vessel safely and efficiently, having knowledge in safe management system, acknowledgment and practical usage skills in accordance with the quality legislative essentials, codes and guidebooks.

6. To prepare a specialist who can evaluate situations, analyze and assess data using traditional and other methods.

7. To develop learning and research planning and organizational skills.

8. To advance a graduate with general and industrial competences on the basis of which s/he will be able to get personal development, career growth and continue further learning levels at higher education institutions.









Knowledge and Understanding

- 1. Describes according to the construction types of vessels, sizes, cargo and cargo shipping facilities; determines classification of cargo types and their safe transportation technologies foreseeing international norms.
- 2. Enumerates types of rescue means of a vessel and their characteristics, crew activities in rescue situations, firefighting rules, and procedures for the prevention of environmental pollution by a vessel according to the requirements of the International Maritime Conventions.
- 3. Describes physical and chemical properties of atmosphere and marine environment of a vessel; determines the classification of hydro meteorological phenomena and their influence on a vessel handling.
- 4. Enumerates the principles of safe navigation handling and operation, organizes navigational watch keeping, rules of a vessel towing at sea and removal of ran aground vessel; determines the integrated management system requirements;
- 5. Describes the criterion of vessel's stability, enumerates theoretical fundamentals of handling and steering; Determines types of vessel facilities and the methods of their technical support.
- 6. Explains fundamentals of marine astronomy and according to the usage of astronomical methods determines location of a vessel and methods of compass correction; enumerates the rules of using and reading of digital cartography; describes the principles of determining location of a vessel through navigational methods.
- of using and reading of digital cartography; describes the principles of determining location of a vessel through navigational meth
- 7. Describes the functionality principles of navigation and radar systems of a vessel, working regime and operation rules.
- 8. Describes the basic principles of functioning vessel's power and electrical systems and the safe methods of technical operation.

<u>Skill</u>

- Implements duties on a vessel and watch keeping procedures, plans and organizes navigational work, crew activity and their training process, carries out log books, documentation bookkeeping, recording and keeping.
- 2. Plans and implements cargo operations, prepares the report documentation, ensures fulfillment of the safe cargo shipping norms, including shipping hazardous cargo in accordance with the established legislative requirements.
- 3. Prepares the report of vessel's stability in accordance with the established IMO criterion.
- 4. Finds and uses information engaged with the weather, carries out observation on the atmosphere and current marine hydro meteorological events, takes the precise interpretation results of factual and expected changes of the weather.
- 5. Uses IMO standard communication phrases; knows the working (English) language in the capacity of fulfilling navigator's efficient obligations in order to communicate with shore and marine authorities.
- 6. States vessel location using navigational and digital cartography; performs basic marine astronomical and navigational tasks; determines the collision risks and reacts accordingly using radar and other navigational methods.
- 7. Carries out search and rescue operations at sea, vessel handling while rescue operations.
- 8. Analyzes the issues of the vessel classification and inspection.
- 9. Carries out environmental procedures in accordance with the international requirements and norms.

Responsibility and autonomy

- 1. Recognizes the importance of effective authority in marine field foreseeing the professional ethic norms; Takes responsibility for fulfilling team work and leadership principles by foreseeing the rights and obligations imposed upon him/her;
- 2. Updates knowledge and skills, recognizes the need for professional standards of ethic, the necessity of development transferable outcomes and industry skills. Independently plans one's own learning and research process, objectively evaluates the achieved competences, and takes responsibility for one's own career growth.

Learning Outcomes



Program Structure

In order to obtain a degree of the "Bachelor of Nautical Science" the student has to accumulate 240 ECTS credits set with the Educational Program. Every academic year, the student is enabled to master 60 credits in a standard way (30 credits per term). It is admissible that an annual workload of the student can exceed 60 credits or can be less than 60. It is inadmissible that an annual workload of the student exceed 75 credits.

The students with academic indebtedness, being authorized to re-take an academic course, are enabled to register an academic course during the basic academic term (calendar), as well as during additional (in the period of summer holidays) term.

The duration of each academic term comprises 20 weeks, out of which 15 weeks are allocated to holding the lessons, whereas 1 week – repetitive (Fx) exams. Only V Term represents an exception (navigation practice term), which is prolonged and consists of 180 days, i.e. 6 months. Duration of the navigation practice term is calculated for seafarers' preparation in the Law on Seafarers' Education and Certification in STCW Convention and to meet the demands of minimal duration of the relevant navigation experience in the process of Certification. The duration of learning navigation practice and student's' practice on the ocean vessel shall not be less than 12 months. The students undertake a learning navigation practice on the training ship of Batumi State Maritime Academy - "CADET", as well as on other larger displacement vessels with more than 500 registered tons under the management of Batumi, Poti and Kulevi Sea Ports.

The graduate, having been granted with an academic degree "Bachelor of Nautical Science" can be employed on the following sites:

- > Private crewing, stevedoring, consultancy and other companies related to maritime transport;
- *State Services, where the activity is related to regulation and control of the maritime transportation;*
- Ship Building and Ship Ordering Enterprises;

A person with an academic degree "Bachelor of Nautical Science" is equipped with proper knowledge and competence to continue study at the Master Level.

Employment Opportunity

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Elected academic staff and invited specialists are involved in program implementation:

Professor – 4

Human Recourses

- Associate Professor 10
- Assistant Professor 1
- ➤ Assistant -1
- ➢ Invited teachers-23
- International Academic/Invited Staff -4

For mastering an Educational Program, the Student is authorized to apply material-technical base of Batumi State Maritime Academy under equip conditions according to the rule set with the Statute, Internal Regulation and Regulation. They will have access to the following areas:

- Free access to the computer Center connected to the Internet;
- Free access to the Reading Hall of BSEMA Library;
- Laboratories of Physics, Technical Mechanism and Chemistry for conducting learning research types of works;
- The Laboratories of the Vessel Structure, Operation of Energetic Equipment of the Vessel, Electric Facilities, Pneumatics and Hydraulics, electric technique and automatic laboratories;
- Training Base and Simulators of the Learning, Training and Certification Center of the Seafarers of BSEMA;
- Participation in the Scientific Conferences.

To ensure a full students' life, BSEMA offers the students the following opportunities to ensure full students' life:

Opportunity to take part in various types of cultural, cognitive and sport events;

Students knowledge is assessed in pursuant with the "Exam and Assessment Procedure" adopted according to the Decree N3 Issued by the Minster of Education and Science of Georgia on January 5, 2007 and Decision of the Senate of Batumi State Maritime Academy №7/11 taken on April 23, 2019.

Assessment System

Material

Recourses

Assessment of Students' knowledge is held in each learning component with 100-score system. Assessment of the level of achieving learning outcome in each component of the program should include interim and final assessment.

The forms, methods, components and criteria for assessing the knowledge is described in details in the syllabus of the academic course.



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_I Semester	Elective course: 1.Business English 2.Georgian Language 3 ECTS	Physical Training I 2 ECTS	Mathematics I 5 ECTS	Ge	General Physics I Aca 5 ECTS		ic Writing CTS	Geography of Nav gational Routes 5 ECTS	i Seamanship 5 ECTS		
II Semester	Basics of Business Administration 6 ECTS	Maritime Healthcare 4 ECTS	Physical Training II 2 ECTS	Mat	hematics MF II 5 ECTS	General P 5 E	Physics MF Industrial II Chemistry 4 ECTS		Information Technologie S s in seamanship 4 ECTS		
III Semester	Maritime English MN1.1 5 ECTS	International Regulations for Preventing Collisions at Sea 5 ECTS	Marine — Navigation I 5 ECTS	\mathbb{R}	Ship Safety Rules MN 5 ECTS	$\left \right\rangle$	Celestial Na 5 EC	vigation I TS	Ship's Types, Constructions and Technical Equipment 5 ECTS		
IV Semester	Maritime English MN1.2 5 ECTS	Ship Handling and Maneuvering 5 ECTS	Marine Navigation II 5 ECTS	Tele	Marine Radio and Telecommunication 5 ECTS		Celestial Na 5 EC	Ship's Stability 5 ECTS			
V Semester	Onboard Training MN 30 ECTS										
VI Semester	Maritime English MN2 5 ECTS	Navigational gears 5 ECTS	Prevention of Pollutio arine Environment an pollution procedu 5 ECTS	on of M ad anti- res	Ship's Power Electric Syst 5 ECTS	r and tems	Marine Meteorology 5 ECTS		Maritime Law 5 ECTS		
VII Semester	Quality Assurance and Marine Risks Management Onboard 5 ECTS	International Maritime Orga nization (IMO) Conventions 5 ECTS	Ship Commercia Management 5 ECTS	al	ECDIS I 5 ECTS	Radar and ARPA Systems 5 ECTS		Cargo operations on liquid cargo vessels 5 ECTS			
VIII Semester	Professional Knowledge and Competencies MN 5 FCTS	Cargo operations on dry cargo vessels 5 FCTS	Leaderships and tear Ethics 5 FCTS	n work	ECDIS I 5 ECTS	I Ship M 5		Management ECTS	Bridge Resource Management 5 FCTS		



Honor, Disciplina, Experientia!