

NIKOLA VAPTSAROV NAVAL ACADEMY



"FILII MARIS SUMUS"



MISSION STATEMENT

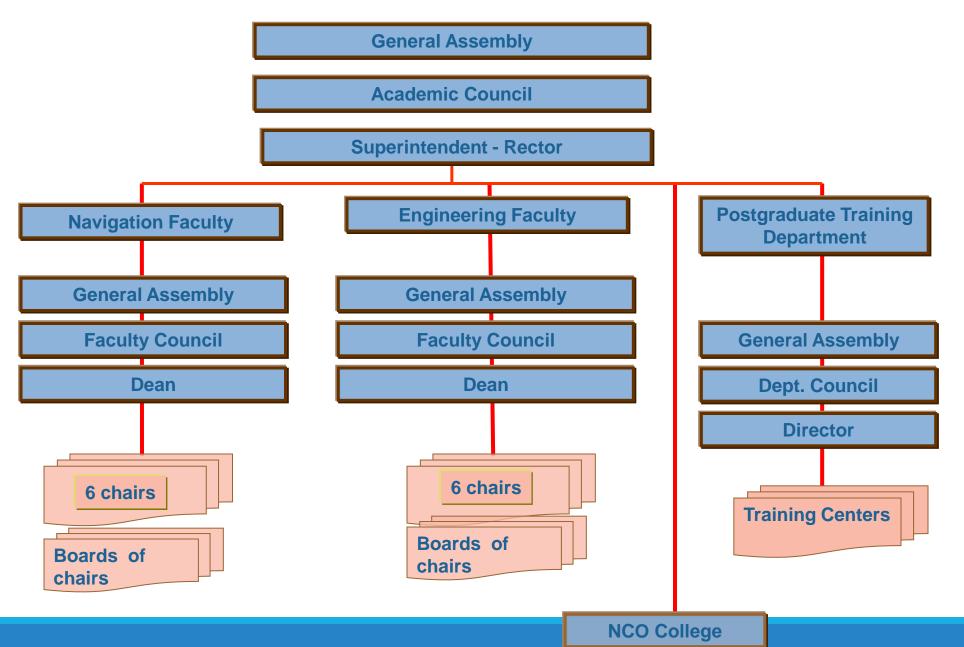
To develop highly qualified leaders for the Bulgarian Navy and the maritime industry; to prepare them for the challenges of the transforming Navy and the rapidly changing sector of the global maritime economy

MAIN OBJECTIVES



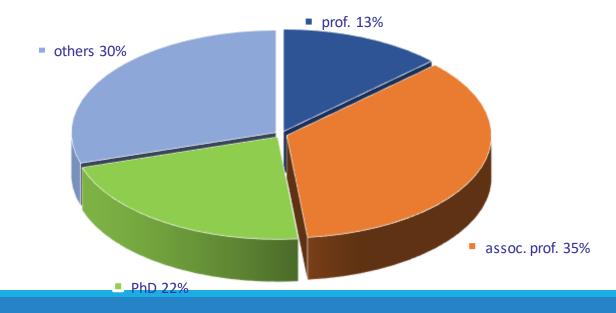
- ✓ Training of officers for the Navy with higher military and civilian education
- ✓ Training of marine specialists with higher education degrees "Doctor", "Master" and "Bachelor" for the civilian fleet
- ✓ Postgraduate qualification of Marine personnel
- ✓ Scientific research in the interest of the transformation of the Navy of the Republic of Bulgaria and the maritime industry
- ✓ Training of officers for Master's degree from the Naval Department of the Defence and Staff College in Sofia
- ✓ Professional training and qualification of non commissioned officers and seamen.

ACADEMIC STRUCTURE



ACADEMIC STAFF

Sections	Full Professors	Associate professors	Other PhD holders	Total
NAVIGATION FACULTY	9	16	15	60
ENGINEERING FACULTY	4	27	10	54
POSTGRADUATE TRAINING DEPARTMENT	3	1	2	17
TOTAL ACADEMIC STAFF	16	44	27	108 + 23 + 1



ACADEMIC SUPPORT UNITS

- Naval Research Center
- English Resource Center
- CISCO Academy
- Ship Brokers Center
- Naval Training Center
- Career Development Center
- EIPC Center
- Information Center and Library
- Publishing Center
- Maritime Technology Transfer Center



TRAINING FACILITIES

- **❖Auxiliary training ship 206**
- ❖m/v Asen 422
- ❖m/v Todor Kableshkov 423
- **❖Sail training vessel "Kaliakra"**
- **❖Boat base**
- Summer camp
- **Simulators**
- **⇔**Polygons
- ***Planetarium**





TRAINING FACILITIES

- Lecture-halls and classrooms
- Library with Informational computer center
- **❖Sports Hall and swimming pool**
- Cinema and Conference hall
- ***Dormitories**
- Dining facilities
- **❖**Museum







TRAINING OF NAVAL OFFICERS (CADETS)

HIGHER EDUCATION with a BACHELOR degree

MILITARY SPECIALTY:

- COMMAND AND CONTROL OF NAVAL TACTICAL UNITS SPECIALIZATIONS:
- ✓ NAVIGATION
- ✓ MARINE ENGINEERING
- ✓ NAVAL COMMUNICATION AND RADIOTECHNICAL SYSTEMS
- ✓ MILITARY LOGISTICS joint program with National Military University

CIVILIAN SPECIALTY:

- NAVIGATION
- MARINE ENGINEERING
- INFORMATION AND COMMUNICATION TECHNOLOGIES LOGISTICS

Duration of training: 5 years

TRAINING OF OFFICERS (CADETS) FOR MILITARY MEDICAL ACADEMY

<u>Joint program</u>: Military Medical Academy, Nikola Vaptsarov Naval Academy and Medical University - Varna

MILITARY DOCTORS

Military specialty COMMAND AND CONTROL OF NAVAL TACTICAL UNITS SPECIALIZATIONS - BACHELOR degree – NVNA Civilian specialty MEDICINE - MASTER degree – MU-Varna



MILITARY NURSES

MILITARY PROFESSIONAL QUALIFICATION CERTIFICATE - NVNA
BACHELOR DEGREE IN NURSING – MU-Varna









TRAINING OF OFFICERS (CADETS) FOR BULGARIAN ARMED FORCES

HIGHER EDUCATION with a BACHELOR degree

Duration of training: 5 years



• MILITARY SPECIALTY

COMMAND AND CONTROL OF NAVAL TACTICAL UNITS,

SPECIALIZATIONS: CYBER OPERATIONS

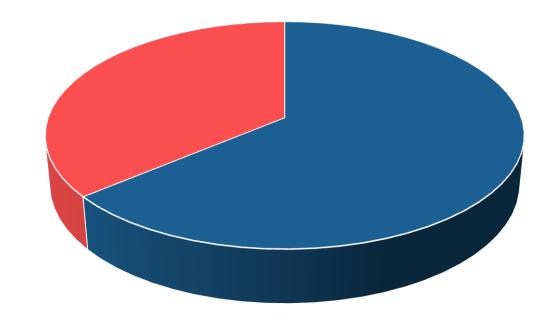
CIVILIAN SPECIALTY
 CYBER SECURITY



FEMALE/MALE CADET RATIO

The Naval Academy has a total of 169 cadets in training at the moment.

Specialty	Ratio
Navigation	10/20
Marine Engineering	4/31
Naval Communication and Radio technical Systems	14/18
Cyber operations	4/8
Military Doctors/Nurses	29/31
Summary	61/108



TRAINING OF OFFICERS (CADETS) FOR BULGARIAN ARMED FORCES

FUTURE SPECIALIZATION "MECHATRONICS"

- ➤ Mass entry of autonomous systems in military domain
- **≻**EDA Remote Defense
- ➤ Lack of qualified staff
- Prepare operators for management and maintenance of unmanned platforms and systems (Embedded Systems and Artificial Intelligence specialists)
- Established partner network with Gdynia Naval Academy, Poland; Military Technology Universities in Poland and Romania; Institute of Robotics BAS
- ➤ Readiness to create new curriculum and supported documents 2019
- **Possible start of education 2020/2021** → Possible start of education 2020/2021







TRAINING OF OFFICERS (CADETS) FOR BULGARIAN ARMED FORCES

FUTURE SPECIALIZATION "INTELLIGENT DEFENSE SYSTEMS"

- ➤ Needed competencies:
- Information technologies and different types of communications;
- Supply Sensor Networks and their data sets
- Working in an added reality environment, synthesized in Real Time or Near Real Time
- Big Data Processing, Computer Vision, Cognition and Neural Networks, Aerial Photogrammetry, 3D Modeling and others;
- To understand the common operational picture
- ➤ Established partner network with Military Technology Universities in Poland and Romania; Institute of Metal Science BAS
- ➤ Readiness to create new curriculum and supported documents next two years
- **Possible start of education 2021/2022** →









PRACTICE

SUMMER CAMP& DIVING

ON BOARD TRAINIG

SIMULATOR TRAINING

LEADERSHIP TRAINING



TRAINING

INTERNATIONAL ACTIVITIES

TRAINING AND PRACTICE ABROAD ON BOARD OF POLISH, ROMANIAN AND U.S. NAVY SHIPS



TRAINING AND PRACTICE ABROAD

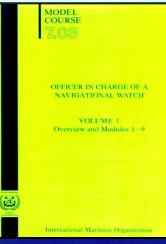
• ONE CADET CONTINUES HER TRAINING IN US NAVAL ACADEMY, ANNAPOLIS

• NVNA CADETS TAKE PART IN MIRCHA CEL BATRAN NAVAL ACADEMY SUMMER CAMP IN ROMANIA AND IN POLISH NAVAL ACADEMY SUMMER CAMP













A Practical Guide

EDUCATION OF STUDENTS FOR THE MERCHANT MARINE BACHELOR'S DEGREE PROGRAMS

NAVIGATION FACULTY

- NAVIGATION
- INLAND WATER NAVIGATION
- FLEET AND PORT EXPLOATATION
- WATER TRANSPORT MANAGEMENT
 - SHIPPING
 - LOGISTICS

ENGINEERING FACULTY

- MARINE ENGINEERING
- SHIP ELECTRICAL ENGINEERING
- INFORMATION AND COMMUNICATION TECHNOLOGIES
 - CYBER SECURITY
 - TECHNOLOGY OF SHIP REPAIR
 - OCEAN ENGINEERING

Duration of training – 4 years

Academic hours - 2700-3000 (240 ECTS Credits)



EDUCATION OF MERCHANT MARINE STUDENTS MASTER'S DEGREE PROGRAMS

NAVIGATION FACULTY

NAVIGATION
 PORT MANAGEMENT
 WATER TRANSPORT MANAGEMENT
 LOGISTICS

ENGINEERING FACULTY

•MARINE ENGINEERING
•SHIP ELECTRICAL ENGINEERING
•INFORMATION AND COMMUNICATION TECHNOLOGIES
•SHIP REPAIR
•CYBER SECURITY

Duration of Training 1/3 years
Academic hours 900/2500 (60/120 ECTS Credits)



NCO COLLEGE ORGANISATION OF TRAINING

- Certified according the ISO 9001: 2015 Quality Management Standard
- The training programs meet the requirements of national regulatory documents
- Curriculum content is compliant with the Non-commissioned Officer Professional Military Education Reference Curriculum







NCO COLLEGE

TRAINING OF CADETS - SPECIALIZATIONS

- Navigation
- Operation and maintenance of ship power systems
- Marine weapons
- Exploitation and maintenance of shipborne radio, radio and communication devices

28 weeks of training 1260 academic hours 12 weeks onboard training practice



- Training of professional sailors for acquiring qualification in specialties
- > Training for a new position (specialization) for NCO's
- Course for the acquiring higher military rank



POSTGRADUATE TRAINING NAVAL OFFICERS

- Training for a new position (specialization)
- Training on the issues of interoperability with NATO
- Language training
- Computer training
- Courses for social adaptation of officers passing in reserve





RESEARCH AND DEVELOPMENT ACTIVITIES

STRATEGIC GOAL

To establish a centre of fundamental and applied science research in the area of naval science and marine technologies providing education and scientific support to the Navy and maritime industry

MAIN AREAS

- ✓ Marine technologies
- ✓ Naval science, weaponry and equipment
- ✓ Maritime safety and security
- ✓ Navigation
- ✓ Maritime education and qualification activities
- ✓ Green energy

INTERNATIONAL CONTACTS

MEMBERSHIP IN

- **❖The International Association of Maritime Universities (IAMU)**
 - **❖The International Maritime Lecturers Association (IMLA)**
- **❖The Consortium of Military Academies and Defense Studies Institutes**
 - **❖Black Sea Association of Maritime Institutes (BSAMI)**
 - **❖The Nautical Institute**
 - Cisco Networking Academy
 - ❖ Microsoft Academy
 - **❖**Microsoft Dynamics Academy













INTERNATIONAL CONTACTS

CONTACTS WITH NAVAL ACADEMIES

France; Germany; Greece; Italy; Netherlands; Norway; Poland; Portugal; Romania; Spain; Turkey; USA















































INTERNATIONAL CONTACTS

CONTACTS WITH MARITIME ACADEMIES AND UNIVERSITIES

Belgium; China; Georgia; Greece; Poland; Romania; Russia; Turkey; Ukraine; USA; World Maritime University











































INDUSTRIAL PARTNERS





























- ✓ Atlantis Ship Management
- ✓ Ahrenkiel Steamship GmbH & Co. KG, Germany
- ✓ Bernhard Schulte, Germany
- ✓ Carnival Maritime
- ✓ CMA CGM Group
- ✓ Cosmos Shipping
- ✓ Cornel Geerts Transporation
 Group
- ✓ Cargill
- ✓ Golden union shipping, Greece
- ✓ Eastern Pacific Shipping Pte. Ltd.
- ✓ EURONAV, France
- ✓ Keppel Fels Baltech Ltd,
 Singapore
- ✓ K-Line, Japan
- ✓ Kuwait Oil Tanker Company
- ✓ Maran dry cargo, Greece
- ✓ Marine Consult, Germany
- ✓ MTG Dolphin PLC

























- ✓ Multraship Towage & Salvage
- √ Navigation Maritime Bulgare
- ✓ Ocean Crew Management Ltd
- ✓ Premiere Group Ltd, Norway
- ✓ Promar Ltd, Germany
- ✓ Ray Shipping Ltd
- ✓ Royal Caribbean International
- ✓ Stamco Ship Management Co Ltd, Greece
- √ Thenamaris, Greece
- √ Tsakos shipping, Greece
- ✓ TRANSAS Group, UK
- ✓ Union Shipping and Trade Co Ltd, Greece
- ✓ Valiant Shipping S.A.
- ✓ W J Parnis England Ltd
- ✓ ZIM Integrated Shipping Ltd
- ✓ Zodiac Maritime Ltd, UK





NIKOLA VAPTSAROV NAVALACADEMY

VARNA