



NIKOLA VAPTSAROV NAVAL ACADEMY

"FILII MARIS SUMUS"



VARNA 2015

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

- ✓ **Higher military and civilian education for the future naval officers**
- ✓ **Bachelor's, Master's and PhD degrees for the merchant marine**
- ✓ **Postgraduate training for military and maritime personnel**
- ✓ **Research and Development for the Bulgarian Navy and the maritime industry**

OTHER OBJECTIVES

- ✓ **Master degree for officers from the Naval Department of National Defense Academy**
- ✓ **Technical training and qualification enhancement of the NCOs and sailors**

HISTORICAL HIGHLIGHTS

- 1881 First technical school in Bulgaria
- 1893 Beginning of line officer / deck officer education and training
- 1901 Qualification courses for senior naval officers
- 1906 First diplomas of higher education
- 1953 First foreign cadets funded by their respective MoDs
- 1956 First Master's Degree Engineering program
- 1960 International recognition of the Academy's diploma by IMO
- 1995 Maritime university approved under the STCW 78/95 Convention
- 1998 First program accreditation of core specialties
- 2000 Co founder of the International Association of Maritime Universities
- 2000 First ISO Quality Certificate
- 2001 First Institutional Accreditation
- 2003 Receiving ISO Quality Certificate
- 2009 Receiving ISO Quality Certificate
- 2010 Member of the executive board of IAMU
- 2011 Founder of BSAMI
- 2012 Vice-president of BSAMI
- 2014 Audit by EMSA
- 2015 Recognition by Japanese Ministry of Land, Infrastructure, Transport and Tourism



TRADITIONS

Founders of the Academy



Lieutenant
Kuzminski



Admiral
Rozhdestvenski



Major-general
Konstantin Kirkov

- ✓ Institution for training in the maritime way of life
- ✓ Integrated training of officers both for the Navy and the Merchant Marine in a military environment
- ✓ Theory and practice in close integration
- ✓ National Center of maritime education and science
- ✓ Strict adherence to the international standards for training of maritime personnel

Patron of the Academy



Nikola Vaptsarov



Alumni Association of the Naval
Academy

ACCREDITATIONS



HIGHER EDUCATION ACT

**DEFENSE AND ARMED
FORCES ACT**

NATO

**STANAG publications
Allied publications
Other NATO requirements**

AUDIT BY EMSA

IMO



**STCW 78/95 model
courses,
MARPOL, SOLAS and
other conventions**

Syllabus accreditation - 1998

Institutional accreditation - 2001

Syllabus accreditation - 2004

**Syllabus accreditation - 2006
Transport, Navigation, and Aviation vocational domain**

Institutional accreditation – 2006

**Syllabus accreditation - 2007
Military Science vocational domain**

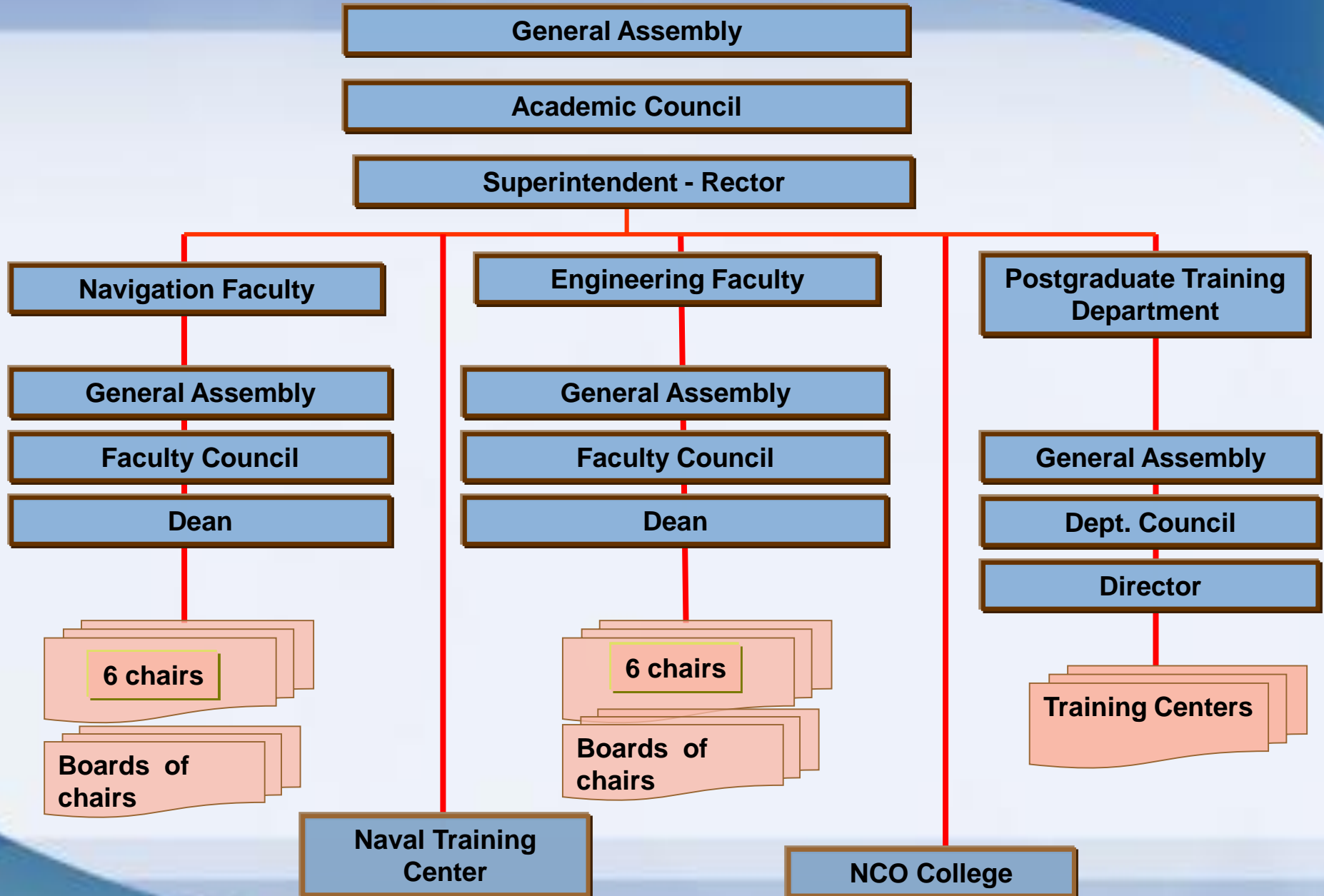
Syllabus accreditation - 2009

Institutional accreditation - 2012

Syllabus accreditation - 2012

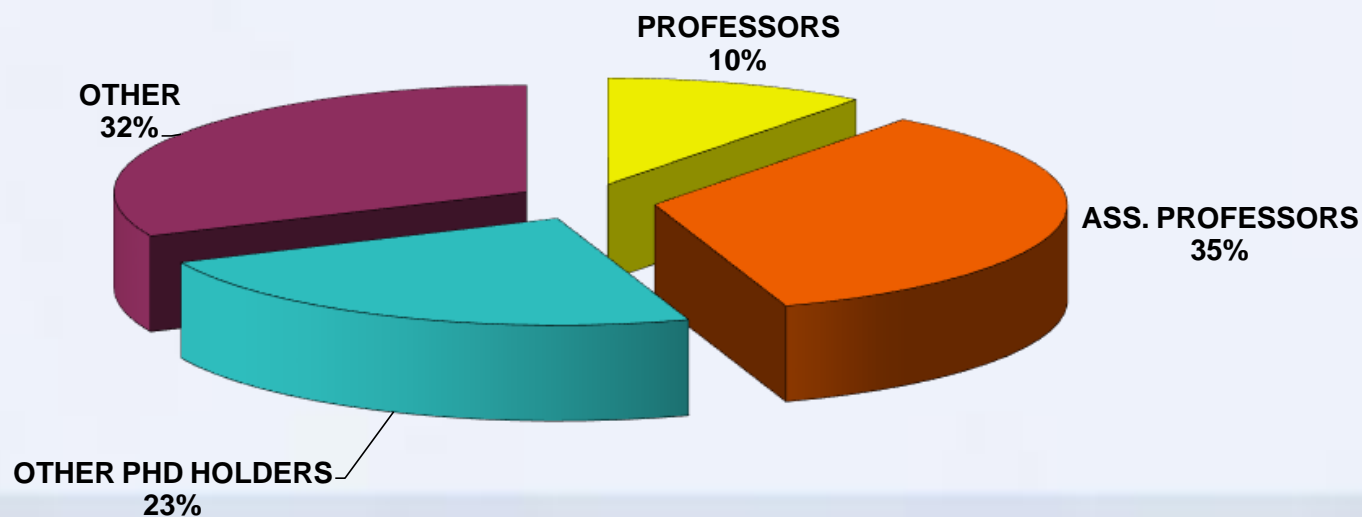
Syllabus accreditation - 2013

ACADEMIC STRUCTURE



ACADEMIC STAFF

Sections	Full Professors	Associate professors	Other PhD holders	Total
NAVIGATION FACULTY	7	16	10	64
ENGINEERING FACULTY	4	20	13	51
POSTGRADUATE TRAINING DEPARTMENT	-	-	2	14
TOTAL ACADEMIC STAFF	11	36	25	108 + 19 + 2



SEAFARER'S COMPETENCE OF THE ACADEMIC STAFF

Master on ships of 3000 gross tonnage or more	9
Master on ships up to 500 gross tonnage	1
Chief Engineer Officers	1
Watchkeeping Officers	6
Second Engineer Officers	7
Ship's Electrical Engineer Officers	2
GMDSS General Operators	20
First-class Radioelectronic	3
Second-class Radioelectronic	1
Maritime Security Trainers	5
Maritime Instructors	100%

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
- Sea born Training base 421
- m/v Asen 422
- Sail training vessel "Kaliakra"
- Sail training vessel "Royal Helena"
- Boat base
- Summer camp
- Simulators
- Polygons
- Planetarium



TRAINING FACILITIES



- Lecture-halls and classrooms
- Library (125 208 volumes) with Informational computer center
- Sports Hall and swimming pool
- Computer training center with Internal computer net
- Psycho-physiological labs
- Computer labs
- Language labs
- Other labs
- English resource center (SAC)
- Publishing center
- Cinema and Conference hall
- Dormitories
- Dining facilities
- Museum



OPERATING TRAINERS AND SIMULATORS

<i>Name</i>	<i>Skill practiced</i>	<i>Working places</i>
Transas Marine NTPRO 5000	Full vessel control from a visualized navigation bridge	10
Transas GMDSS 5000	Using procedures for communication	8
Transas ERS 5000	All-round practice for ship engineers	8
Transas VTMS	Vessel Traffic Management Systems	7
NAUTIS FMB Class A	A Full Mission Bridge Simulator	8
VStep RescueSim	Incident Management Simulator	4
Firing Range	Firings	8
Naval Tactical Simulator	Tactical activities at sea	10
Dangerous waters	Tactical activities at sea	39
JCATS	Tactical activities at any environment	39
DIESELSIM Norcontrol	Control and diagnostics of ship diesel engines	5
Training center FESTO	Operating of hydraulic and pneumatic systems	18
ALFA LAVAL	Using ship separators	12
Technical centre SKF	Design and servicing of rolling bearings	12
Planetarium	Astronomical observations	122

TRAINING OF NAVAL OFFICERS (CADETS)

HIGHER EDUCATION with a BACHELOR degree

Duration of training: 5 years



MILITARY SPECIALTY:

- **COMMAND AND CONTROL OF NAVAL TACTICAL UNITS – NAVIGATION**
- **COMMAND AND CONTROL OF NAVAL TACTICAL UNITS – MARINE ENGINEERING**
- **COMMAND AND CONTROL OF NAVAL TACTICAL UNITS –
NAVAL COMMUNICATION AND RADIOTECHNICAL SYSTEMS**



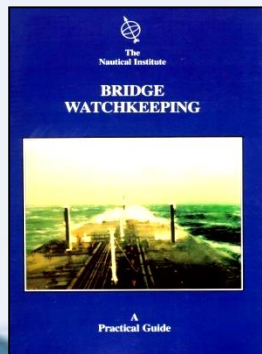
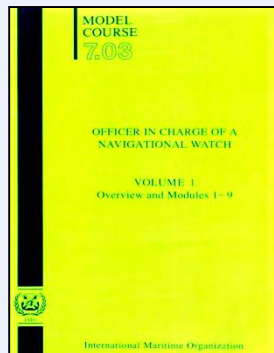
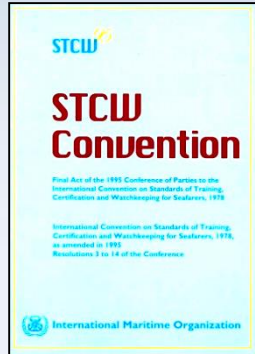
CIVILIAN SPECIALTY:

- **NAVIGATION**
- **MARINE ENGINEERING**
- **INFORMATION AND COMMUNICATION
TECHNOLOGIES IN MARINE INDUSTRY**



EDUCATION OF STUDENTS FOR THE MERCHANT MARINE

BACHELOR'S DEGREE PROGRAMS



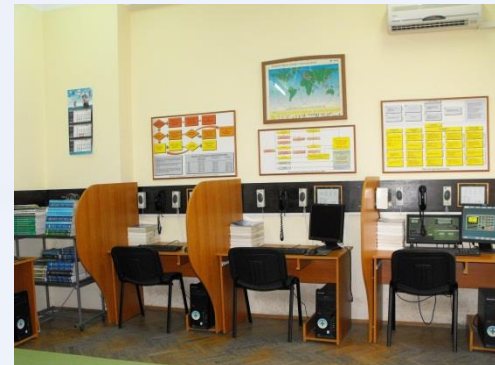
NAVIGATION FACULTY

- NAVIGATION
 - INLAND WATER NAVIGATION
- INFORMATION AND COMMUNICATION TECHNOLOGIES IN MARINE INDUSTRY
 - FLEET AND PORT MANAGEMENT
 - WATER TRANSPORT MANAGEMENT
- SHIPPING

ENGINEERING FACULTY

- MARINE ENGINEERING
- SHIP ELECTRICAL ENGINEERING
- 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

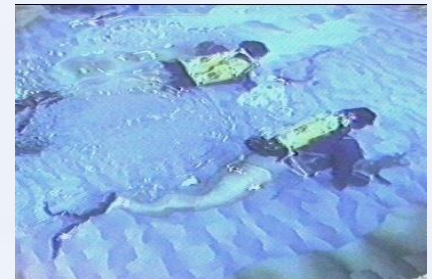
NAVIGATION FACULTY

- NAVIGATION
- INFORMATION AND COMMUNICATION TECHNOLOGIES IN MARINE INDUSTRY
 - PORT MANAGEMENT



ENGINEERING FACULTY

- MARINE ENGINEERING
- SHIP ELECTRICAL ENGINEERING
 - SHIP REPAIR



TOGETHER WITH :

VARNA FREE UNIVERSITY

- MARINE SAFETY AND SECURITY
- ARTOIS UNIVERSITY, FRANCE
 - LOGISTICS



Duration of Training 1 / 3 years

Academic hours 900 / 2500 (60 / 120 ECTS Credits)

DOCTORAL DEGREE PROGRAMS

- 1. Ship Operation and Navigation**
- 2. Operation of Water Transport, Seaports and River ports**
- 3. Radiolocation and Radionavigation**
- 4. Communications Systems and Networks**
- 5. Ship Power Plants and Machinery**
- 6. Technology and Organization of Shipbuilding and Ship Repairing**
- 7. Ship Power Supply and Electrical Systems**
- 8. Organization and Management of the Armed Forces**
- 9. Military Psychology**
- 10. Automated systems for information processing and management**
- 11. Dynamics, strength and reliability of machines**
- 12. Organization and management**
- 13. Military and political aspects of security**

POSTGRADUATE TRAINING

MERCHANT MARINERS

- **Conventional certificate training**
- **Training for a higher degree of maritime qualification**
- **Bridge team/resource management courses**
- **Engine team/resource management courses**
- **Operation and maintenance Power Systems in excess of 1000 volts**
- **Licensed ship broker and agent training**
- **ECDIS training**
- **GMDSS operator training**
- **VTMS training**
- **Security officers training**
- **Safety officers training**
- **Ionizing radiation sources competence courses**



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**



NON COMMISSIONED OFFICERS COLLEGE

SPECIALIZATIONS

- Navigation
- Naval weapons system
- Operation and maintenance of ship power plants
- Operation and maintenance of ship radio, radar and communication devices

3 trimesters duration

2x13 weeks academic training

12 weeks of shipboard practice



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)
 - Cisco Networking Academy
 - Microsoft Academy
 - Microsoft Dynamics Academy



INTERNATIONAL CONTACTS

CONTACTS WITH NAVAL ACADEMIES

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



INTERNATIONAL CONTACTS

CONTACTS WITH MARITIME ACADEMIES AND UNIVERSITIES

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



BUSINESS CONTACTS



- ✓ Bernhard Schulte, Germany



- ✓ CMA CGM Group



- ✓ Cosmos Shipping



- ✓ Euronav, France



- ✓ Keppel Fels Baltech Ltd, Singapore



- ✓ K-Line, Japan



- ✓ Kuwait Oil Tanker Company



- ✓ Marine Consult, Germany



- ✓ Multraship Towage & Salvage, The Netherlands



- ✓ Navigation Maritime Bulgare



- ✓ Premiere Group Ltd, Norway



- ✓ Promar Ltd, Germany

- ✓ Rhenus Maritime Ltd



- ✓ Royal Caribbean International



- ✓ Stamco Ship Management Co Ltd, Greece



- ✓ Thenamaris, Greece



- ✓ TRANZAS Group, UK



- ✓ Union Shipping and Trade Co Ltd, Greece



- ✓ Valiant Shipping S.A.

- ✓ W J Parnis England Ltd



- ✓ ZIM Integrated Shipping Ltd, Israel



- ✓ Zodiac Maritime Ltd, UK



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