

МЕДИЦИНСКИ УНИВЕРСИТЕТ - ВАРНА
„Проф. д-р Параскев Стоянов“

Ул. „Марин Дринов“ 55, Варна 9002, България
Тел.: 052/ 65 00 57, Факс: 052/ 65 00 19
e-mail: uni@mu-varna.bg, www.mu-varna.bg



MEDICAL UNIVERSITY - VARNA
"Prof. Dr. Paraskev Stoyanov"

55, Marin Drinov Str., 9002 Varna, Bulgaria
Tel.: +359 52/ 65 00 57, Fax: + 359 52/ 65 00 19
e-mail: uni@mu-varna.bg, www.mu-varna.bg

FACULTY OF MEDICINE

Approved:

Dean:

(Prof. Yoto Yotov, MD, PhD)



SYLLABUS

IN

“MARITIME MEDICINE “

Specialty	MEDICINE
Educational - qualification degree	master
Organizational form of education	full-time
Auditorial activity (Lectures/Seminars)	30 (24/6)
Extra-auditorial activity	30
ECTS- credits	2
Discipline type	elective
Semester/s of education	7, 8, 9, 10
Semester of examination	7, 8, 9, 10
Developer(s) of the Syllabus:	Prof. Dimitar Stavrev, MD, PhD, DSc Ch. Assist. Prof. T. Kuyumdzhiev, MD, PhD Assist. Prof. Yasen Georgiev, MD

Varna, 2025

ANNOTATION

Aims of the course	The training in maritime medicine aims to prepare medical students with the topic of practical medical support for maritime activities, to develop and solve practical, theoretical and scientific medical problems in accordance with the needs of maritime practice.
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Outcomes for students at the end of the course:	
Competences	
Competence group	1. Patient Care that is compassionate, appropriate, and effective for treating health problems and promoting health.
Knowledge	<ul style="list-style-type: none"> ▪ Impact of marine environmental factors on the human body ▪ Adaptation reactions in normal living and crisis situations
Skills	<ul style="list-style-type: none"> ▪ Providing emergency care in water trauma. ▪ Providing specialized medical care for general and specific injuries and illnesses in marine activities
Competence group	2. Medical Knowledge about established and evolving biomedical, clinical, and cognate (eg, epidemio-logical and social-behavioral) sciences and the application of this knowledge to patient care.
Knowledge	<ul style="list-style-type: none"> ▪ Medicines and consumables in the ship's pharmacy. ▪ Job specifications of ship's medical personnel.
Skills	<ul style="list-style-type: none"> ▪ Environmental risk management and safety of marine facilities. ▪ Organization of a medical station on the seashore. ▪ Medical provision of diving medicine and hyperbaric oxygen therapy. ▪ Evacuation by ship and/or helicopter of a patient from the board.
Competence group	3. Practice-Based Learning and Improvement that involves investigation and evaluation of their own patient care, appraisal, and assimilation of scientific evidence, and improvements in patient care.
Knowledge	<ul style="list-style-type: none"> ▪ Methods of preventive medicine in unison with the growing focus on evidence-based medicine.
Skills	<ul style="list-style-type: none"> ▪ Mastering the methodologies of anthropometry, functional studies, psychological and psychophysiological studies. They are conducted in parallel and in a complex ▪ Logging of the studies in a way that allows others working in the field to reproduce the study and compare and enrich the analyses.

Key competencies for lifelong learning¹, that the discipline develops:

Literacy competence

Literacy is the ability to identify, understand, express, create, and interpret concepts, feelings, facts and opinions in both oral and written forms, using visual, sound/audio and digital materials across disciplines and contexts. It implies the ability to communicate and connect effectively with others, in an appropriate and creative way.

Multilingual competence

This competence defines the ability to use different languages appropriately and effectively for communication. It broadly shares the main skill dimensions of literacy: it is based on the ability to understand, express and interpret concepts, thoughts, feelings, facts and opinions in both oral and written form (listening, speaking, reading and writing) in an appropriate range of societal and cultural contexts according to one's wants or needs.

Mathematical competence and competence in science, technology, engineering

A. Mathematical competence is the ability to develop and apply mathematical thinking and insight in order to solve a range of problems in everyday situations. Building on a sound mastery of numeracy, the emphasis is on process and activity, as well as knowledge. Mathematical competence involves, to different degrees, the ability and willingness to use mathematical modes of thought and presentation (formulas, models, constructs, graphs, charts).

B. Competence in science refers to the ability and willingness to explain the natural world by making use of the body of knowledge and methodology employed, including observation and experimentation, in order to identify questions and to draw evidence-based conclusions. Competences in technology and engineering are applications of that knowledge and methodology in response to perceived human wants or needs. Competence in science, technology and engineering involves an understanding of the changes caused by human activity and responsibility as an individual citizen.

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Digital competence

Digital competence involves the confident, critical and responsible use of, and engagement with, digital technologies for learning, at work, and for participation in society. It includes information and data literacy, communication and collaboration, media literacy, digital content creation (including programming), safety (including digital well-being and competences related to cybersecurity), intellectual property related questions, problem solving and critical thinking.

X

Personal, social and learning to learn competence

Personal, social and learning to learn competence is the ability to reflect upon oneself, effectively manage time and information, work with others in a constructive way, remain resilient and manage one's own learning and career. It includes the ability to cope with uncertainty and complexity, learn to learn, support one's physical and emotional well-being, to maintain physical and mental health, and to be able to lead a health-conscious, future-oriented life, empathize and manage conflict in an inclusive and supportive context.

X

Citizenship competence

the ability to act as responsible citizens and to fully participate in civic and social life, based on an understanding of social, economic, legal and political concepts and structures, as well as global developments and sustainability.

X

Entrepreneurship competence

Entrepreneurship competence refers to the capacity to act upon opportunities and ideas, and to transform them into values for others. It is founded upon creativity, critical thinking and problem solving, taking initiative and perseverance and the ability to work collaboratively in order to plan and manage projects that are of cultural, social or financial value.

Cultural awareness and expression competence

Competence in cultural awareness and expression involves having an understanding of and respect for how ideas and meaning are creatively expressed and communicated in different cultures and through a range of arts and other cultural forms. It involves being engaged in understanding, developing and expressing one's own ideas and sense of place or role in society in a variety of ways and contexts.

¹ As defined in 2018 r. by the European Union Council ([https://eur-lex.europa.eu/legal-content/BG/TXT/HTML/?uri=CELEX:32018H0604\(01\)&from=EN](https://eur-lex.europa.eu/legal-content/BG/TXT/HTML/?uri=CELEX:32018H0604(01)&from=EN))

Methods of education

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| <ul style="list-style-type: none">▪ lectures▪ seminars▪ practical and creative problem solving |
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Links with other courses from the curriculum of the specialty
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| <ul style="list-style-type: none">▪ Builds upon knowledge acquired in/Depends on:<ul style="list-style-type: none">○ Anatomy○ Physiology○ Disaster Medicine○ Hygiene○ Epidemiology○ Pharmacology○ Toxicology |
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