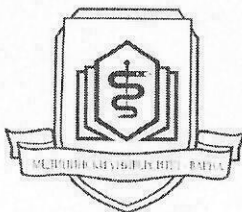


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MEDICAL UNIVERSITY - VARNA  
"Prof. Dr. Paraskev Stoyanov"

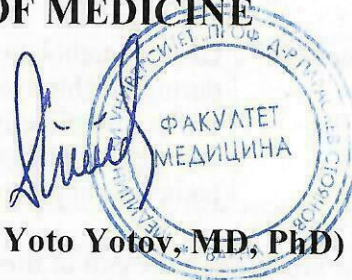
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## FACULTY OF MEDICINE

Approved:

Dean:

(Prof. Yoto Yotov, MD, PhD)



## SYLLABUS

### IN *General pathology*

|   |   |
|---|---|
| Specialty                               | MEDICINE  |
| Educational - qualification degree      | master  |
| Organizational form of education        | full-time   |
| Auditorial activity (Lectures/Seminars) | 90 (60/30)  |
| Extra-auditorial activity               | 30  |
| ECTS- credits                           | 4   |
| Discipline type                         | compulsory  |
| Semester/s of education                 | fifth   |
| Semester of examination                 | fifth   |
| Developers of the Syllabus:             | Assoc. prof. Deyan.Dzhenkov, MD, PhD<br>Assoc. prof. Kalin Kalchev, MD, PhD<br>Assoc. prof. Hristo Popov, MD, PhD |

Varna, 2023

## ANNOTATION

|                           |  |
|---------------------------|--|
| <b>Aims of the course</b> | General pathology is a core discipline in the medical curriculum. It is taught during the third year of medical studies, spanning one semester. The main goal of the discipline is to study the general pathological changes in cells, tissues, and organs in response to the influence of various pathological factors and the pathological processes that develop during the body's reactions. |
|---------------------------|--|

| <b>Outcomes for students at the end of the course:</b> |   |
|--|---|
| <b>Competences</b>                                     |   |
| <b>Competence group</b>                                | <b>1. Patient care</b> that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health   |
| <b>Competence group</b>                                | <b>2. Medical knowledge</b> of established and evolving biomedical, clinical, and related sciences (e.g., epidemiological and social-behavioral) and their application to patient care  |
| <b>Knowledge</b>                                       | <ul style="list-style-type: none"> <li>• To acquire new scientific and clinical knowledge.</li> <li>• To apply medical and scientific knowledge in clinical situations.</li> </ul>  |
| <b>Skills</b>  | <ul style="list-style-type: none"> <li>• To be familiar with the methods of pathology and to be able to determine which specific method can be applied for diagnosing the corresponding nosological unit.</li> <li>• To acquire knowledge of the etiology and pathophysiological mechanisms of diseases.</li> <li>• To acquire skills and knowledge of the main pathological processes.</li> <li>• To develop the ability to make connections between the main pathological processes.</li> </ul>                                   |
| <b>Competence group</b>                                | <b>3. Practical training and self-improvement</b> , which includes examining and assessing one's own patient care, evaluating and assimilating scientific evidence, and improving patient care  |
| <b>Knowledge</b>                                       | <ul style="list-style-type: none"> <li>• To evaluate and assimilate scientific evidence.</li> <li>• To apply evidence-based medicine.</li> </ul>  |
| <b>Skills</b>  | <ul style="list-style-type: none"> <li>• To be able to recognize macroscopic findings in different general pathological processes.</li> <li>• To be able to recognize microscopic findings in different general pathological processes.</li> <li>• To be able to make connections between macroscopic and microscopic findings, the general pathological process, and the clinical manifestations.</li> <li>• To be able to draw conclusions based on macroscopic and microscopic findings for prognosis and prediction.</li> </ul> |
| <b>Competence group</b>                                | <b>4. Interpersonal and communication skills</b> that facilitate effective exchange of information and teamwork with patients, their families, and other healthcare professionals   |
| <b>Knowledge</b>                                       | <ul style="list-style-type: none"> <li>▪ To work effectively as a member of a healthcare team.</li> </ul>   |
| <b>Skills</b>  | <ul style="list-style-type: none"> <li>▪ To be able to work politely, calmly, amicably, and effectively with colleagues, patients, and their families.</li> </ul>   |

|                         |  |
|-------------------------|--|
| <b>Competence group</b> | <b>5. Professionalism</b> , demonstrated through commitment to professional responsibilities, adherence to ethical principles, and sensitivity to diverse patient populations.   |
| <b>Knowledge</b>        | <ul style="list-style-type: none"> <li>• To demonstrate professional behavior and responsibility.</li> <li>• To demonstrate humanity and cultural competence.</li> <li>• To maintain emotional, physical, and mental health.</li> <li>• To strive for continuous personal and professional growth.</li> </ul>  |
| <b>Skills</b>           | <ul style="list-style-type: none"> <li>• To acquire skills to demonstrate professionalism and responsibility toward a specific patient and their illness.</li> <li>• To acquire skills to show concern and empathy for a specific patient and their family.</li> <li>• To acquire knowledge and skills and demonstrate calmness in critical situations.</li> <li>• To acquire skills that will help them work with literature that will enrich their knowledge.</li> </ul> |
| <b>Competence group</b> | <b>6. Systems-based practice</b> , demonstrated through actions showing awareness and responsiveness to the broader context of the healthcare system, as well as the ability to use system resources effectively to provide optimal care   |

| Key competences for lifelong learning developed by the discipline:  |          |
|---|----------|
| <b>Language Literacy</b><br>The ability to recognize, understand, express, create, and interpret concepts, feelings, facts, and opinions both in spoken and written form, using visual and auditory materials, audio resources, and digital content in various disciplines and situations. It indicates the ability to communicate and successfully comprehend others in an appropriate and constructive manner.  | <b>X</b> |
| <b>Multilingual Competence</b><br>It refers to the ability to effectively use different languages in an appropriate way for communication. It generally encompasses the same core skills as language literacy: it is based on the ability to understand, express, and interpret concepts, thoughts, feelings, facts, and opinions both orally and in writing (listening, speaking, reading, and writing), in suitable social and cultural contexts according to one's own desires or needs.   | <b>X</b> |
| <b>Mathematical Competence and Competence in the Field of Exact Sciences, Technology, and Engineering</b><br>A. Mathematical competence is the ability to develop and apply mathematical thinking and perspective to solve various problems in everyday situations. Building on a solid foundation of mathematical literacy, it emphasizes reasoning and activity, as well as knowledge. Mathematical competence includes, to varying degrees, the ability and willingness to use mathematical ways of thinking and representation (formulas, models, concepts, graphs, and diagrams).<br>B. Competence in the exact sciences refers to the ability and willingness to explain the natural world using acquired knowledge and applied methods, including observation and experimentation, with the aim of asking questions and drawing conclusions based on facts. Competencies in technology and engineering involve the application of this knowledge and methodology to meet perceived human desires or needs. Competence in the exact sciences, | <b>X</b> |

|   |   |
|---|---|
| technology, and engineering includes an understanding of the changes caused by human activity and the responsibility of the individual citizen.   |   |
| <b>Digital Competence</b><br>The ability to use and engage with digital technologies confidently, critically, and responsibly for learning, in the workplace, and for participation in society. It includes information literacy, data literacy, communication and collaboration, media literacy, creating digital content (including programming), safety (including well-being in a digital environment and cybersecurity competencies), intellectual property issues, problem-solving, and critical thinking.  | X |
| <b>Personal Competence, Social Competence, and Competence for Acquiring Learning Skills</b><br>The ability to reflect on oneself, manage time and information effectively, work constructively with others, maintain resilience, and manage one's own learning and career. This includes the ability to cope with uncertainty and complexity, acquire learning skills, support one's physical and emotional well-being, maintain physical and mental health, lead a health-conscious and future-oriented lifestyle, demonstrate empathy, and manage conflicts in an inclusive and supportive context. | X |
| <b>Civic Competence</b><br>The ability to act as responsible citizens and to participate fully in civic and social life based on an understanding of social, economic, legal, and political concepts and structures, as well as global events and sustainability.   | X |
| <b>Entrepreneurial Competence</b><br>The ability to act in accordance with favorable opportunities and ideas and transform them into value for others. It is based on creativity, critical thinking, problem-solving skills, initiative, perseverance, and the ability to work collaboratively in order to plan and manage projects that have cultural, social, or financial value.   |   |
| <b>Competence in Cultural Awareness and Expression</b><br>Understanding and respecting how ideas and meanings are creatively expressed and communicated in different cultures through various arts and other forms of culture. It involves a commitment to understanding, developing, and expressing one's own ideas and sense of place or role in society in diverse ways and across different contexts.   |   |

#### Methods of education

- lectures
- seminars
- case studies, consultations, discussions, work with scientific literature

#### Links with other courses from the curriculum of the specialty

- Builds on the knowledge acquired from fundamental disciplines such as anatomy and histology, physiology, biology, genetics, biophysics, and biochemistry, by developing an understanding of the morphological changes that occur at the cellular, tissue, organ, and system levels under the influence of various pathogenic factors, which are fundamental to the development of human diseases.
  - Mandatory for studying the primary pathological deviations and processes that occur in the human organism, which is absolutely necessary for developing proper clinical thinking in future physicians.
  - Other related disciplines:
    - "General pathology is a clinicomorphological discipline and a connecting link between fundamental medical sciences and clinical practice."
- General pathology – "The Philosophy of Medicine" – Prof. Dr. Boyan Kardzhiev.