

PROF. DR. ASSEN ZLATAROV UNIVERSITY - BURGAS
MEDICAL FACULTY
DEPARTMENT OF PHYSIOLOGY, PATHOPHYSIOLOGY,
CHEMISTRY AND BIOCHEMISTRY

Approved by

DEAN:

/Assoc. Prof. Romyana Yankova, PhD/



SYLLABUS

Discipline:	RESEARCH METHODOLOGY
Specialty:	MEDICINE
Professional field:	7.1. Medicine
Educational and qualification degree:	MASTER
Form of training:	REGULAR

Burgas, 2024

EXTRACTS FROM THE CURRICULUM

1. GENERAL PARAMETERS OF THE DISCIPLINE					
Total (academic hours):		90		ECTS: 3	
Auditorium classes	Non-auditorium classes		Auditorium ECTS	Non-auditorium ECTS	
45	45		1.5	1.5	
Type of Discipline:	Academic hours per week: /lectures + practices/		Course:	Semester:	
Elective	1 +2		II	III	
2. STUDY FORMS					
Auditorium classes:	Academic hours	ECTS	Non-auditorium classes:	Academic hours	ECTS
Lectures	15	0.75	Consultation	10	0.5
Practices	30	0.75	Individual work - Preparation of a com- munication on a scien- tific problem	20	0.5
			- Preparing a presenta- tion .	15	0.5
3.EVALUATION AND CONTROL					
Forms of evaluation and control				Relative share in the total score	
Sessional evaluation: exam				0.4	
Semester (ongoing) assessment:				0.6	
Forms of semester control:					
- Attendance at classes				0.25	
- Ongoing testing before each practical lesson				0.25	
- Active participation in classes				0.25	
- Presentation on a scientific problem				0.25	

ANNOTATION of the discipline "Research Methodology"

Purpose of the course:

The course "Research Methodology" is pre-designed for the students of the specialty "Medicine", full-time form of study.

The aim of the Research Methodology course is to provide students with an understanding of how to participate in research projects, to encourage innovative thinking, and to acquire the skills to translate ideas into a well-structured and defensible research project.

Main tasks of the curriculum:

To be laid the foundations of the discipline "Research methodology", as follows: development of the methodology of scientific research and its non-information provision, the design and presentation of the research, development and funding of research projects as an opportunity to participate in student research sessions. The curriculum includes the problems of protection of scientific results as objects of intellectual property.

Preparation of a literature review, structuring of a scientific publication, report.

Structure of learning content:

- Research methodology
- Research technology

Teaching methods: traditional and innovative teaching methods, explanations, lectures, discussions, multimedia presentations, projects, teamwork, etc.

Forms of independent work: coursework, problems to be solved independently on seminar topics, solving tests, preparing presentations, abstracts/scientific reports, preparing scientific publications and projects.

Methods of evaluation: examination, lecture, final control - presentation of results of scientific research.

Prerequisites for students' basic knowledge and skills:

Students should have a good basic knowledge of Computer Science from high school.

Expected results:

Upon successful completion of the course, students must:

- Know the basic requirements of the normative documents regulating the procedures for developing and defending a scientific study.
- Be able to prepare materials for a report and presentation in the defense of their research.
- Prepare the results of their research for publication.

CURRICULUM CONTENT

LECTURES

Topic	Hours
1. Research methodology. Nature of the scientific method and scientific research. Scientific ethics	1
2. The scientific theory. Scientific explanation and prediction	2
3. The problem of the universal scientific method, of the experimental repeatability of theory. Traditional concept of knowledge and scientific concept of knowledge	2
4. Developing the methodology of the research. Introduction to research methods	2
5. Aim, object and subject of the research	1
6. Study of scientific information	1
7. Formatting and presentation of a scientific paper	2
8. Development and funding of research projects	2
9. Scientific results as an object of intellectual property	1
10. Conditions for copyright in scientific results	1
Total:	15

SEMINARS AND EXERCISES

Topic	Hours
1. Scientific results and scientific products. Main stages of scientific research	3
2. Scientific ethics. General concept of ethics, morality, applied ethics, professional ethics. Place of values in science, Ethics in science - values, norms, principles, practices, role of ethics in science. Typical ethical problems in science	3
3. Development of the methodology of scientific research. Selection of topic. Formulation of the research problem. Significance. Relevance. Initial study of literature and factual sources. Working hypotheses. Probability of achieving new scientific and practical results	3
4. Aim, object and subject of the research. Characteristics of the research object. Selection of research methods. Development of a system of measures and indicators for analysis, evaluation and forecast of the object of study	3

5. Importance of the study of scientific information for scientific research. Working with catalogues and databases. Authoritative sources of scientific information. Results achieved and validated by the scientific community in a given field - review and summarize the achievements and contributions of other authors. Tracking the literature over time. Critical analysis of the literature. Publicly accessible information retrieval systems and databases on the Internet. The place of literature and data in research.	3
6. Formation and presentation of a scientific paper. Citation and bibliography architecture. Formatting of the text - title and cover page, chapter and paragraph headings. Spacing, formulae, tables, diagrams, etc. Scientific and stylistic editing. Presentation of the scientific work	3
7. Mandatory attributes of a research project. Translating a research idea into a defensible research project proposal. Funding sources for research projects Establishing and managing a research team. Publication of project results in refereed scientific journals with impact factor	3
8. Scientific results as an object of intellectual property. Characteristics of scientific results determining the specificity of their ownership. Recognition of intellectual property rights over scientific results in international treaties and national legislation	3
9. Conditions for the emergence of copyright on scientific results. Content and duration of copyright. Author, authorship and co-authorship. Use of scientific results by the employer. Copyright contract and royalty. Free use of scientific results for academic other purposes	3
10. Presenting and defending a presentation on a scientific problem	3
Total:	30

BACKGROUND
for Research Methodology exam
for students of the specialty "Medicine"

1. Research methodology. Nature of the scientific method and scientific research. Scientific ethics
2. Scientific theory and the problem of demarcation. Scientific explanation and prediction
3. The problem of the universal scientific method, the experimental repeatability of theory. Traditional concept of knowledge and scientific concept of knowledge
4. The development of the methodology of scientific inquiry. Introduction to research methods
5. Purpose, object and subject of scientific research
6. Study of scientific information
7. Formation and presentation of a scientific work
8. Developing and funding research projects
9. Scientific results as an object of intellectual property
10. Conditions for copyright in scientific results

BIBLIOGRAPHY

1. Shanti Bhushan Mishra, Shashi Alok, Handbook of Research Methodology, 2017, Educreation, Delhi, ISBN: 978-1-5457-0340-3.
2. Stuart MacDonald & Nicola Headlam, Research Methods Handbook, Centre for Local Economic Strategies Express Networks, Manchester M4 5DL, ISBN: 1870053656.
3. Muhammad Mahboob Ali, Md. Kamrul Hossain, Instruction Manual: Research Methodology, volume 2, 2016, Office Manager, Institutional Quality Assurance Cell, Daffodil International University, ISBN: 978-984-34-1757-2.
4. Muhammad Mahboob Ali, Md. Kamrul Hossain, Instruction Manual: Research Methodology, volume 2, 2016, Office Manager, Institutional Quality Assurance Cell, Daffodil International University, ISBN: 978-984-34-1757-2.

Students can use any other textbook in Research Methodology covering above topics.

Compiled by: ..

(Assoc. Prof. Rumyana Yankova, PhD)

Approved by a decision of the Council of the Department of Physiology, Pathophysiology, Chemistry and Biochemistry, Protocol №1/13.02.2024.

Head of Department

(Assoc. Prof. Yordan Georgiev, PhD)

Approved by a decision of the Faculty Council of the Medical Faculty, Protocol №... 3/15.02.2024.

Secretary of the Council of the Medical Faculty:

(Chief assist. Prof. Ruska Nenková, PhD)

UNIVERSITY "PROF. DR. ASSEN ZLATAROV" - BURGAS
MEDICAL FACULTY
DEPARTMENT OF NEUROLOGICAL DISEASES, PSYCHIATRY AND
PSYCHOLOGY

APPROVED BY THE DEAN

.....
/Assoc. Prof. R. Yankova, PhD/

DISCIPLINE

Subject: **STRESS AND MENTAL HEALTH**

Speciality: **7.1. MEDICINE**

Field of higher education: **7. HEALTH CARE AND SPORTS**

Education and qualification degree: **MASTER**

Form of education: **REGULAR**

Burgas
2024

EXTRACTS FROM THE CURRICULUM

1. GENERAL PARAMETERS OF THE DISCIPLINE					
General educational employment (hours):		90	Credits:		3
Auditorium employment	Extracurricular employment		Auditorium employment	Extracurricular employment	
45	45		1.5	1.5	
Kind of the discipline	Number of hours per week: /lectures + exercises/		Course:	Semester:	
Selectable	1 + 2		I	II	
2. EDUCATIONAL FORMS					
Auditorium employment	Hours	Credits:	Extracurricular employment	Hours	Credits:
Lectures	15	0.75	Consultations (work with a teacher)	10	0.50
Practical classes	30	0.75	Independent work	5	0.25
			- Preparation of an abstract	30	0.75
3. EVALUATION AND CONTROL					
Assessment and control forms				Relative share in the total assessment	
Sessional Assessment: Exam				0.4	
Semester (current) assessment:				0.6	
Forms of semester control:					
- Attendance at classes				0.25	
- Current sustenance before each exercise				0.25	
- Active participation in classes				0.25	
- Protocol protection				0.25	

**ANNOTATION
of the discipline
"Stress and Mental Health"**

Purpose of the course:

This course is addressed to students of medicine and other medical specialties, with an orientation to deal with the stressors that arise during separation from the family environment, training, realization and others. The main emphasis falls on strategies to cope with stress, not only during students' studies, but also to maintain mental health in general.

Course Objective:

The curriculum in "Stress and Mental Health" consists of two relatively independent, but at the same time related disciplines. They are successively presented to the students. The aim of teaching the discipline is to prepare students to use an easy, organized tool that provides access to proven methods and tools for dealing with stress in the everyday life of the modern person.

Main tasks of the curriculum:

The training covers the main topics related to stress such as paradigm, its essence, typology, psychophysiology, manifestations and consequences. Stress at the workplace is among the most serious challenges for maintaining the health and well-being of workers. Students are extensively introduced to the concept of "stress", as well as what the consequences would be for a person's mental health, if timely measures are not taken to deal with it. In the current course, special attention is also paid to stress and traumatic life experiences, as factors related to oncological diseases. In the form of a discussion and different types of questionnaires, the state of distress is assessed.

Structure of learning content:

- Stress: essence, theories, manifestations and consequences.
- Burnout syndrome: essence, factors for the occurrence and development of consequences.
- Psychosocial distress in cancer patients. - methods for diagnosis of distress.
- Recommendations for dealing with distress in everyday life and in the workplace.

Teaching methods: traditional and innovative methods of teaching, lecture, talk, discussion, multimedia presentation, teamwork and more.

Forms of independent work: term paper of reference type, tasks for self-solving on topics from practical classes, solving tests, colloquiums.

Methods of evaluation: ongoing control in conducting classes, conversation, final control - test exam and abstract protection.

Preliminary requirements for the basic knowledge and skills of students: Students should have good basic knowledge of psychology and philosophy from the high school course.

Expected results:

After successful completion of the course in the discipline, students must: - to form psychological knowledge and competences to properly assess the stress and ways of dealing with it. - have the skills needed to find solutions to specific problems, to perform basic operations and procedures for impact on mental health. - have mastered competencies for scientific explanation of the influence of stress factors, for the application of various techniques

for coping and mastering stress, competences for monitoring, modeling, analysis, development of logical and creative thinking, development of independence, teamwork, self-control

CONTENT OF THE CURRICULUM PROGRAM

Lectures

Topic	hours
1. Etymology and definitions of the term "stress". Typology of stress. Psychophysiology of stress. Stress theories. Theory of general adaptation syndrome. Energy theory for adaptation. Stress theory as a cognitive process.	3
2. Difference in symptoms of distress, anxiety and depression. Stress and personality. Type A theory and Type B behavior. Behavioral model "personality resistance". Stress as a diagnosis. Acute stress reaction. Post-traumatic stress disorder. Adaptation disorders. Stress and social factors.	3
3. Etymology and definitions of the concept of "Burnout". Burnout syndrome as a diagnosis. Psychophysiology of Burnout Syndrome. Symptoms of overheating.	3
4. Factors for the onset of Burnout Syndrome. Risk groups. Burnout syndrome as a dynamic process. Burnout syndrome as a progressive disappointment. An algorithm for prevention and dealing with Burnout Syndrome.	3
5. Psychosocial distress in cancer patients. Diagnosis of distress in patients with cancer. Suicidal ideas and suicidal risk.	3
Generally:	15 ч.

Seminars and exercises

Topic	hours
1. Psychosocial risks and stress at work. Symptoms of stress. Self-assessment test. Test at your level of stress. (seminar-exercise)	2
2. Ways to deal with stress. Stress techniques. Giving up the topics for abstracts. (seminar)	2
3. How to recognize and deal with Burnout Syndrome. Dealing with the problem. (seminar)	2
4. Psychological test to check the level of the Burnout. Recovery after diagnosis "Burnout". (exercise)	2

5. Colloquium of etymology and definitions of the term "stress". Typology of stress. Psychophysiology of stress. Stress theories. Theory of general adaptation syndrome. Energy theory for adaptation. Stress theory as a cognitive process. Etymology and definitions of the concept of "Burnout". Burnout syndrome as a diagnosis. Psychophysiology of Burnout Syndrome.	2
6. Methods for diagnosis of distress. Social adaptation scale Life Change, Index Scale, PSI-4- Parental Stress Index. The Hoard Glaser questionnaire "Stress Control Type A and Type B". (Discussion - Exercise)	2
7. Resistance Test: Behavioral Model. Personality Resistance Hardy Personality. Distress thermometer. (exercise)	2
8. Stress Symptom Checklist. Biofeedback method (seminar-exercise)	2
9. Recommendations for dealing with distress in everyday life and at work. A twice -and -one steps toward a healthy lifestyle. Algorithm for changing type A behavior. (prejudice)	2
10. Strategies and techniques for the prevention and management of distress. (exercise)	2
11. Influence of the diagnosis of "cancer" on the mental health of the person. (seminar-discussion)	2
12. Suicidal ideas and suicidal risk in cancer patients. (seminar-discussion)	2
13. Care for patients with advanced cancer. (seminar-discussion)	2
14. Solving medical cases. (Discussion)	2
15. Presentation and protection of abstracts	2
Общо:	30 часа

Synopsis

For the Stress and Mental Health exam for students in the specialty "Medicine"

1. Etymology and definitions of the term "stress". Typology of stress. Psychophysiology of stress.
2. Stress theories. Theory of general adaptation syndrome. Energy theory for adaptation. Stress theory as a cognitive process.
3. Difference in symptoms of distress, anxiety and depression. Stress and personality. Type A theory and Type B behavior. Behavioral model "personality resistance".
- 4 Stress as a diagnosis. Acute stress reaction. Post -traumatic stress disorder. Adaptation disorders. Stress and social factors.
5. Etymology and definitions of the concept of "Burnout". Burnout syndrome as a diagnosis. Psychophysiology of Burnout Syndrome. Symptoms of overheating.
6. Factors for the onset of Burnout Syndrome. Risk groups. Burnout syndrome as a dynamic process.

7. How to recognize and deal with Burnout Syndrome. Dealing with the problem. Recovery after diagnosis "Burnout".
8. Burnout syndrome as a progressive disappointment. An algorithm for prevention and dealing with Burnout Syndrome.
9. Psychosocial distress in cancer patients. Diagnosis of distress in patients with cancer.
10. suicidal ideas and suicidal risk.

Preparation literature

1. Anakiev, Yu., Textbook for students ed. Plovdiv, Paisii Hilendarski, 2021.
2. Dreeva, L. Psychology of Knowledge, Lik.
3. Promoting mental health at work. Guide to apply a complex approach. EU Publication Service, 2017.
4. Daskalova, F. SOS- Stress, Bonn, 2014.
5. Milev, V., Milev R. Mental Health, Current Problems, Balkan Press., 1994.
6. Online Mental Health magazine, Main IC.

Compiled the curriculum:

(Prof. Dr. G. Panov MD PhD DSc)

The curriculum was discussed and adopted at a meeting of the Department of "Nervous Diseases, Psychiatry and Psychology", protocol No.7 of 22.03.2024.

Head of Department: ...

(Prof. Dr. G. Panov, MD, PhD, DScs)

The curriculum was adopted and discussed at the Faculty Council of the Faculty of Medicine, protocol No. 5 from 27.03.2024.

Scientific Secretary of the Faculty of Medicine: ...

(Chief Assist. Prof. R. Nenkova, PhD)

UNIVERSITY "PROF. DR. ASSEN ZLATAROV" - BURGAS

MEDICAL FACULTY

**DEPARTMENT OF NEUROLOGICAL DISEASES, PSYCHIATRY AND
PSYCHOLOGY**

APPROVED BY THE DEAN

.....
/Assoc. Prof. R. Yankova, PhD/

DISCIPLINE

Subject: **VERBAL AND NONVERBAL DOCTOR-PATIENT
COMMUNICATION**

Speciality: **7.1. MEDICINE**

Field of higher education: **7. HEALTH CARE AND SPORTS**

Education and qualification degree: **MASTER**

Form of education: **REGULAR**

**Burgas
2024**

EXTRACTS FROM THE CURRICULUM

1. GENERAL PARAMETERS OF DISCIPLINE					
General educational employment (hours):		90		Credits:	
				3	
Auditorial	Extracurricula		Auditorial	Extracurricula	
45	45		1,50	1,50	
Type of subject:	Number of hours per week: /lectures + seminars+practicals/		Course:	Semester:	
Задължителна	1+1+1		I	II	
2. EDUCATIONAL FORMS					
Auditorial:	Hours	Credits	Extracurricula:	Hours	Credits
Lectures	15	0,50	Consultations (work with a teacher)	10	0,33
Seminars	15	0,50	Self-study - Referencing a scientific text - Course project	25	0,83
Practices	15	0,50		10	0,34
3. ASSESSMENT AND CONTROL					
Assessment and control forms				Relative proportion in the total assessment	
Sessional Assessment: Exam				0.4	
Current assessment:				0.6	
Forms of semester control:					
- Attendance and active participation in classes				0,2	
- Preparation of an abstract of a scientific text				0,4	
- Course project				0,4	

ANNOTATION

The academic discipline "Verbal and nonverbal doctor-patient communication" is an elective subject from second list and is intended for the students of the specialty "Medicine", first year, EQD "Master", full-time form of education.

Aims

The main goal of the course is to form basic knowledge and skills in the field of verbal and non-verbal communication in medical practice. The aim of the education is to help the students to master communication skills, such as verbal and nonverbal techniques, active listening, managing conflict, public speaking. The knowledge corresponding to the studied discipline can be used in medical practice by completing the following educational tasks:

- Effective communication management;
- Understanding nonverbal behavior in clinical interactions;
- Building a comprehensive verbal and nonverbal behavior adequate to the situation, the patient or the audience by mastering various communication techniques that enhance the discussion culture

Structure of the learning content

The discipline has a pronounced scientific and applied orientation. The content of the course is related to three main directions: theoretical aspects of communication with a focus on verbal communication in medical practice; nonverbal communication - modalities and barriers in communication in doctor - patient interaction; creating a good emotional climate.

Practicals are in the field of applied clinical communication. Psychological and sociolinguistic factors specific to verbal clinical communication are presented, which influence the effectiveness of communication in diagnosis, treatment and propaedeutics. Specific nonverbal factors are studied to improve verbal communication in the clinics. The focus of training is also on listening, speaking and perception skills as the main factors for effective communication.

Teaching methods

In the learning process, a central place is given to lectures and practical classes as the main organizational forms, in which a variety of learning methods are offered (presentations, discussions and debates, case work).

Significant attention is also given to working in small groups, case studies and role-plays, project work and research tasks are offered within the practicals.

Forms of self-study

Working with information sources (specialized literature, electronic resources, Internet sources), referencing scientific text, development of a course project.

Assessment methods

The course finishes with a written exam (test). The evaluation is formed by three components: current evaluation of the work in the classes, referencing of the text and presentation of the course project; assessment from a written exam (test).

Prerequisites for students' basic knowledge and skills

The discipline is elective and there are no requirements for the students' prior preparation.

Expected results

The expected learning outcomes are aimed at students acquiring basic knowledge and skills in the field of verbal and nonverbal communication.

- To be able to solve communication problems in clinical settings;
- To be able to prepare and participate in various verbal presentations - presentation of course projects;
- To increase the level of decoding skills of nonverbal behavior, as well as to increase own nonverbal competence.

CONTENT OF THE CURRICULUM

A. Lectures

Topic:	Hours:
1. Main characteristics of communication. Meaning and characteristics of communication. Components of the communication process.	2 h
2. Types of communication. Interpersonal communication. Nonverbal communication. Written communication. Oral communication.	2 h
3. Views of communication. The interaction model of communication. Information transfer. Interactional context of communication.	2 h
4. Perception in communication. Interpersonal perception. Causal attribution. Categorization and stereotyping. Prejudices.	2 h
5. Basic communication skills. Social competence. Cultural competence Active listening and effective feedback.	2 h
6. Nonverbal communication and body language. Types and functions.	1 h
7. Effective communication in conflict resolution. Conflict management styles.	1 h
8. Doctor-patient communication. Barriers to effective communication with the patient. First impression. Building a trusting relationship with a patient.	2 h
9. Telemedicine and doctor-patient communication.	1 h
Total: 15 hours	

B. SEMINARS	
Topic:	Hours:
1. Personal communication skills - sharing and analysis.	2 h
2. Basic communication skills. Social competence.	2 h
3. The process of communication and interaction between doctor and patient.	2 h
4. Nonverbal vocal expressions. Kinesic communication.	2 h
5. Proxemics and communication. Types of personal space. Professional and personal boundaries.	2 h
6. Emotional competence in good medical practice. Definitions of emotions. Emotional competence abilities.	2 h
7. Conflict management.	3 h
Total: 15 hours	
C. PRACTICALS:	
Topic:	Hours:
1. A study of nonverbal communication knowledge.	4 h
2. Exercises to develop presentation skills.	4 h
3. Exercises to develop emotional competence.	4 h
4. Exercises to develop active listening and giving feedback.	3 h
Total: 15 hours	

COURSE PROJECT

A list of individual assignments related to the lectures is offered, which are prepared and presented within the semester.

LITERATURE FOR SELF-STUDY

Mandatory

1. Pease, B. & A. Pease. (2006). The definitive book of body language: The hidden meaning behind people's gestures and expressions. Bantam.
2. Lloyd, M. et al. (2018). Clinical communication skills for medicine. Elsevier.
3. Balint, J. (2000). The doctor, his patient and the illness. Second ed. Churchill Livingstone

Recommended

1. Dott, C., Mamarelis, ., Karam, E., et al. (March 13, 2022). Emotional Intelligence and Good Medical Practice: Is There a Relationship?. Cureus 14(3):e23126. DOI 10.7759/cureus.23126
2. Johnson, DR. (Dec. 6, 2015). Emotional intelligence as a crucial component to medical education. Int J Med Educ., 6:179-83. doi: 10.5116/ijme.5654.3044. PMID: 26638080; PMCID: PMC4691185.

Authors: ...

(Prof. Dr. G. Panov, MD, PhD, DSs)

....

(Assoc. Prof. B. Tsonkova, PhD)

The curriculum was discussed and adopted at a meeting of the Department of "Nervous Diseases, Psychiatry and Psychology", protocol No.7 of 22.03.2024.

Head of Department: ...

(Prof. Dr. G. Panov, MD, PhD, DSs)

The curriculum was adopted and discussed at the Faculty Council of the Faculty of Medicine, protocol No. 5 from 28.03.24

Scientific Secretary of the Faculty of Medicine: ..

(Chief Assist. Prof. R. Nenkova, PhD)

UNIVERSITY "PROF. DR. ASSEN ZLATAROV" – BURGAS
MEDICAL FACULTY
DEPARTMENT OF OTORHINOLARYNGOLOGY, OPHTHALMOLOGY
AND DERMATOLOGY

Approved by

DEAN:

/ Prof. Romyana Yankova, PhD/

SYLLABUS

Discipline:	Diagnostical methods and therapeutical approach in patients with hearing disabilities
Specialty:	MEDICINE
Professional field:	7.1 Medicine
Educational qualification degree:	MASTER
Form of training:	REGULAR

Burgas, 2024

EXTRACTS FROM THE CURRICULUM

1. GENERAL PARAMETERS OF THE DISCIPLINE					
Total (academic hours):		60	ECTS:		2
Auditorium classes	Non-auditorium classes		Auditorium ECTS	Non-auditorium ECTS	
30	30		1	1	
Type of Discipline	Number of hours per week: /lectures + practical session/		Course:	Semester:	
Elective	1+1		II	IV	
2. STUDY FORMS					
Auditorium classes:	Academic hours	ECTS	Non-auditorium classes:	Academic hours	ECTS
Lectures	15	0.50	Consultations	10	0,3
Seminars	-	-	Individual work	20	0,7
Practical lessons	15	0.50			
3. ASSESSMENT AND CONTROL					
Forms of assessment and control				Relative share in the total score	
Sessional evaluation: exam				0.4	
Semester (ongoing) assessment:				0.6	
Forms of semester control:					
- Attendance at classes				0.5	
- Active participation in classes				0.5	

ANNOTATION

of the discipline "Diagnostical methods and therapeutical approach in patients with hearing disabilities"

Purpose of the course

The "Diagnostical methods and therapeutical approach in patients with hearing disabilities" course is intended for students of the specialty "Medicine" educational qualification degree "Master" in their second year of study in full-time form and it is elective.

The **Objectives** of the course 'Diagnostical methods and therapeutical approach in patients with hearing disabilities' are concerned to the ability of knowing the diagnostical and therapeutic approaches in patients with hearing disability of conductive and neurosensorial type. The content of the discipline deals with issues related to the types of hearing loss, the age of the patients, the aetiology and pathogenesis of the problem, objective hearing studies and therapeutic approaches.

Particular attention is paid to the fact that the development of normal hearing from early childhood or its restoration is of key importance for the accurate speaking of the children and their neurophysiological development and social adaptation

Structure of the learning content: In teaching the subject are held lectures, practical seminars and self-improvement tasks are given.

Methods of teaching: The teaching methods are a way of work of the university teacher and the student, with the help of which the mastering of knowledge, skills and habits is achieved, the worldview of the students is formed, and their abilities are developed.

In the course 'Diagnostical methods and therapeutical approach in patients with hearing disabilities' are used these methods resources: lectures with discussions, interactive methods – brainstorming, visualization and deliberation. Multimedia is used for the lectures to be presented. Firstly, the students get to know the theoretical part of the discussed question and later the whole group together with the teacher is doing some practical tasks.

Forms of education:

1. Lectures – in which are given the basic theoretical knowledge of the themes. For some of the topics and subtopics that can be studied independently by the students, the lectures are introductory. They reveal the essence of the questions falling within the scope of the topics and direct independent work on the recommended literature. In parallel with the lecture material, there will also be discussions on theoretical topics, solving tasks related to the practical application of the methods considered, the use of didactic tests, causes and other.
2. Consultations for clarification of basic concepts, statistical characteristics and others and guidance on their specific features with a view to overcoming difficulties in independent work and others
3. Students' independent work is organized through consultations in the teachers' reception hours, through e-mail communication, other forms of work in an online environment,

joint work on scientific and professional tasks, covering current tests on a given topic by the teacher conducting the practice and others.

Assessment methods

For the assessment of the students, we use combination of classical and modern methods

Testing control - Verbal evaluation before practice, Tests, Discussions

Semestrial exam – practical exam; Test

Basical knowledge issued by the students before practice

Students should have basal knowledge of anatomy, physiology and biochemistry. They should have some knowledge in the otorhinolaryngological diseases. Should have some basal knowledge of the principles of treatment of hearing disabilities.

Expected results

After the course students will have deeper knowledge of the treatment of hearing disabilities. Its aetiology, pathophysiology, clinical characteristics of the different type of hearing loss and the modern surgical approaches to better outcome for the patients.

CURRICULUM CONTENT

LECTURES

Nº	Theme of the lecture	Duration
1	Anatomy and physiology of the auditory system	3 hours
2	Research methods of the auditory system and all types of hearing loss	4 hours
3	Conservative treatment and hearing aids	4 hours
4	Surgical treatment for hearing disabilities	4 hours
Total		15 hours

PRACTICAL SESSIONS

Nº	Topic	hours
1	Anatomy and physiology of the auditory system, types of hearing loss	8 hours
2	Conservative and surgical treatment of hearing disabilities	7 hours
TOTAL:		15 classes

EXAMINATION QUESTIONNAIRE

1. Anatomy and physiology of the auditory system
2. Research methods of the auditory system
3. Types of hearing loss
4. Therapeutic approaches of sudden hearing loss
5. Hearing aids
6. Surgical techniques for better hearing outcome
7. Cochlear implantation

LITERATURE

Required literature

1. Lectures held by Assoc. Prof. Daniel Petkov, MD, d-r Tsvetelina Grigorova
2. Ear nose throat diseases by Dimov and Georgiev 1998

Recommended literature

1. ABC of Ear, Nose and Throat – sixth edition, Harold Ludman and Patrick J Brodey, 2012
2. Ear, Nose and Throat and Neck Surgery, R.S. Dhillon and C.A. East, 2013

Author:

(Assoc. Prof. Daniel Petkov, MD)

10/09.12.2024 The syllabus is approved by a decision of the Council of the Department of, Protocol №

Head of the Department:

(Assoc. Prof. Daniel Petkov, MD)

№ 18/13.01.2025 The syllabus is approved by a decision of the Faculty Council of the Medical Faculty, Protocol

Secretary of the Council of the Medical Faculty:

(Chief Assist. Prof. Ruska Nenkova, PhD)



BURGAS STATE UNIVERSITY

“PROF. D-R ASSEN ZLATAROV”

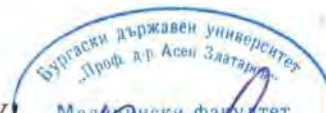
FACULTY OF MEDICINE

**DEPARTMENT “PHYSIOLOGY, PATHOPHYSIOLOGY, CHEMISTRY
AND BIOCHEMISTRY”**

APPROVED BY:

DEAN:

/ Prof. Romyana Yankova, PhD/



S Y L L A B U S

Discipline: REPRODUCTIVE HEALTH

Speciality: MEDICINE

Professional field: 7.1. Medicine

**Educational and
qualification degree: MASTER**

Form of training: REGULAR

Burgas, 2025

EXTRACTS FROM THE CURRICULUM

1. GENERAL PARAMETERS OF THE DISCIPLINE					
Total (academic hours):		90	ECTS:		3
Auditorium classes	Non-auditorium classes		Auditorium ECTS	Non-auditorium ECTS	
45	45		1.5	1.5	
Type of discipline:	Academic hours per week (lectures + practices		Course:	Semester:	
Mandatory	1 + 2		II	III	
2. STUDY FORMS					
Auditorium classes	Academic hours	ECTS	Non-auditorium classes	Academic hours	ECTS
Lectures	15	0.75	Consulation	10	0.50
Seminars	30	0.75	Individual work - Preparation of presentation	5	0.25
			- Preparation of scientific communication	30	0.75
3. EVALUATION AND CONTROL					
Form of evaluation and control				Относителен дял в общата оценка	
Sessional evaluation: Exam				0.4	
Semester (ongoing) assessment:				0.6	
Forms of semester control:					
- Attendance of classes				0.25	
- Ongoing testing before practical lesson				0.25	
- Active participation in classes				0.25	
- Presentation on scientific problem				0.25	

ANOTATION OF DISCIPLINE “REPRODUCTIVE AND SEXUAL HEALTH”

Purpose of the course:

The course „Reproductive health“ is designed for the specialty „Medicine“, full-time form of study.

The aim of this course is to create holistic point of view on human sexuality and sexual and reproductive health, including its medico-biological, psycho-social and legal aspects.

Main tasks of the curriculum:

To create theoretical background of understanding human sexuality and sexual and reproductive health.

To form professional skills and values, linked with different aspects of sexual and reproductive health in the field of diagnostic process, therapeutic opportunities, promotion legislation and social policy.

To assist in building of personal qualities and competences in students, giving them abilities for successful dealing with most common problems and challenges, concerning sexual and reproductive health.

Structure of learning content:

- Basics of reproductive biology
- Physiology of male and female reproductive systems
- Main factors in sexual and reproductive health
- Clinical aspects of infertility
- Assessment and treatment approaches in dealing with reproductive problems
- Understanding complexities of interpersonal relationships in sexual couple and its challenges
- Perceiving a human reproduction as whole process, linked with bio-medical, psycho-social, cultural and political aspects

Teaching methods:

- Theoretical presentation of materials (lecturing)—
- Discussions
- Presentation of materials, prepared from students.
- Educational simulation of problem situation from practice

Forms of independent work:

Preparation of task works on specific topics

Methods of assessment:

Assessment of work in class
Assessment of learning tasks
Assessment of written materials on examen

Prerequisites of student's basic knowledge and skills:

Students are expected to have basic knowledge in Biology, Anatomy, Physiology, Urology and Gynecology.

Expected results:

After finishing the course students are expected to have:

- Knowledge about sexual and reproductive health
- Skills and competences in clinical aspects of reproductive problems
- Understanding social, legal and political aspects of human reproduction
- Counseling skills in assessing and dealing of sexual problems and fertility problems

CURRICULLUM CONTENT

LECTURES

MEN'S REPRODUCTIVE HEALTH	
<i>Lecturer: Prof. Petia Tzvetkova, DSci</i>	
Topic	hours
1. Spermatogenesis and spermiogenesis. Sperm - carrier of genetic information. Sperm' morphology and ultrastructure. Sperm's metabolism, bioenergy and kinetic. Ejaculate – physicochemical composition and environment of mature spermatozoa.	3
2. Biological and clinical factors and etiology of male reproductive health. Clinical integrity of male infertility.	2
WOMAN'S REPRODUCTIVE HEALTH	
<i>Lecturer: Dr. Zlatko Kirovakov</i>	
Topic	hours
1. . Factors of women's reproductive health. Sterility and infertility in women. Etiology, Prevention	2
2. Treatment and prevention of sterility. Reproductive failures. Prevention.	3
SEXUAL HEALTH	
<i>Lecturer: Assoc. Prof. Dr. Rumen Bostandjiev, PhD</i>	
Topic	hours
1. Meaning and role of sexuality in human life and in life of human society. Sexuality and health, personal development and professional realization. Sexual activities in context of family life, national tradition and prosperity.	3
2. Sexology – integrative science for human sexuality. Basic theory of sexuality – Theory of Bostandjiev-Geodakian. Development of interaction between man and woman in human society	3
3. Sexual response in man and woman. Double control system in regulation of sexual reactions. Classification of sexual dysfunctions	3
4. Sexual problems in man – diagnosis, etiology, treatment	3
5. Sexual problems in woman – diagnosis, etiology, treatment. Basics of couple and family therapy. Integrative and interdisciplinary approach to sexual problems	3
Total:	15

SEMINARS AND PRACTISES

Topic	hours
MEN'S REPRODUCTIVE HEALTH	
<i>Lecturer: Prof. Petia Tzvetkova, DSci</i>	
Topic	hours
1. Physiology of male sexual system. Endocrine regulation of spermatogenesis. Methods of investigation (seminar).	2
2. Assessment of male fertility	3
3. Family fertility. Безплодие в семейството. Standard for barren marriage. Classification of the concept of infertility. Frequency of fertility problems in the family.	3
4. Reproductive health and demographic policy. Reproductive health and legal legislation.	2
WOMAN'S REPRODUCTIVE HEALTH	
<i>Lecturer: Dr. Zlatko Kirovakov</i>	
1. Anatomy and physiology of the female reproductive system. Normal menstrual cycle. Ovogenesis.	2
2. Basics of Assisted Reproductive Technologies - History of assisted reproduction. A routine option for the prevention of sterility	3
3. Sexually - transmissible infections of the genital system. Prevention of sexual and reproductive health.	2
4. Family planning. Basics of contraception.	2
5. Seminar	1
SEXUAL HEALTH	
<i>Lecturer: Assoc. Prof. Dr. Rumen Bostandjiev, PhD</i>	
1. Sexual desire and problems in sexual desire – therapeutic opportunities	1
2. Difficulties in obtaining and sustaining erection. Erectile dysfunction – illness or situational process. Strategy in diagnosis and treatment.	1
3. Problems in control of ejaculation. Neuro-physiological and psychological background. Therapeutic opportunities	1
4. Sexual problems in woman – case studies	1
5. Problems in sexual orientation and sexual identity. Gender dysphoria and other sexual problems in childhood.	1
6. Sexual violence and domestic aggression	1
7. Sexually explicit materials and its influence on sexual development of children and sexual functioning of adults.	1
8. Family life and sex. Fidelity and infidelity, consensual nonmonogamy,	1
9. Conditions for flourishing sexual life – creation of satisfying intimate relation as artistic lifelong task.	1
10. Colloquium	1
Total:	30

BACKGROUN FOR EXAMIN FOR STUDENTS OF THE DISCIPLINE “REPRODUCTIVE HEALTH”

1. Endocrine regulation of spermatogenesis. Methods of investigations.
2. Male sexual system physiology.
3. Morphological and ultrastructure of sperm. Kinetics and metabolism of sperm.
4. Ejaculate – physics and chemical characteristic.
5. Epidemiology and etiology of male infertility.
6. Anatomy and physiology of the female reproductive system. Normal menstrual cycle. Ovogenesis.
7. Factors of women's reproductive health. Sterility and infertility in women. Etiology, Prevention
8. Sexually - transmissible infections of the genital system. Prevention of sexual and reproductive health.
9. Treatment and prevention of sterility. Reproductive failures. Prevention.
10. Basics of Assisted Reproductive Technologies - History of assisted reproduction. A routine option for the prevention of sterility
11. Family planning. Basics of contraception.
12. Holistic understanding of human sexuality and its problems
13. Sexology and Sexual Medicine – different aspects of sexual health
14. Sexual response in female and female
15. Sexual problems in male and female
16. Therapeutic approaches in treatment of sexual problems in couples and families

BYBLIOGRAPHY

1. A Agarwal, S Baskaran, N Parekh, CL Cho, R Henkel. Male infertility. The Lancet, 2021 - thelancet.com
2. RN Pillai, K McEleny Management of male infertility. Obstetrics, Gynaecology & Reproductive Medicine, 2021 – Elsevier
3. GL Machen, JI Sandlow. Causes of male infertility. Male Infertility: Contemporary Clinical, 2020 – Springer
4. S Du Plessis, A Agarwal, E Sabanegh Male infertility, 2014, Springer
5. Balfour, A. M. (2012). *How couple re ops shape our world*. London: Karnac.
6. Bancroft, J. (1989). *Human Sexuality Problems*. Edinburgh London Melbourne and New York: Curchill Livingstone.
7. Finkel, E. (2019). *All or Noting Mariages*. New York: Adventure Works.
8. Fisher, H. (1992). *Anatomy of Love*. New York: The Random House Publishing Group.

The students can use any other textbooks of reproductive and sexual health

COMPILED BY:

(Prof., DSci Petia Tzvetkova)

(Assoc. Prof., PhD, Dr. Rumen Bostandjiev)

(Dr. Zlatko Kirovakov)

Approved by of a decision of the Council of the Department of "Physiology, Pathophysiology, Medical genetics, Parasitology, Clinical laboratory and Immunology", Protocol № 11 of 03.07.2025 g.

Head of Department ...

(Prof. , DSci Petia Tzvetkova)

Approved by of a decision of the Faculty Council of the Medical Faculty,
Protocol № 26/09.07.2025.

Secretary of the Faculty Council:

(Ass. , PhD Ruska Nenkova)

Actualization of the curriculum

Department council, protocol №..... of

Faculty council, protocol №..... of