



MEDICAL UNIVERSITY
“PROF. PARASKEV STOYANOV, MD” - VARNA
FACULTY OF DENTAL MEDICINE

Approved with Protocol of the Faculty Council № 46/16.02.2022

APPROVED BY:
DEAN
/Prof. Stefan Peev, MD, DSc/



TUITION PROGRAMME

In

“PUBLIC DENTAL HEALTH”

Specialty: “DENTAL MEDICINE”

Discipline – Compulsory

Educational Degree: “Master”

Professional qualification: “DOCTOR OF DENTAL MEDICINE”

Type of classes	Semester	Workload hours per week	Workload total
Lectures	V	2	30
	VI	1	15
Seminars	V	2	30
	VI	2	30
Total hours	V	2	60
	VI	2	45
Forms of control			Exam VI Semester
Credits (ECTS)	V		3
	VI		2
Extracurricular activity	V; VI		45

Varna, 2022

Annotation

The discipline **Dental Public Health** aims to introduce students to the fundamental principles of Public Health and their application to resolving dental health related problems.

The syllabus includes topics from the subjects on the approaches to assessment, prevention and control of dental diseases in a population, promotion of dental health, as well as organization and management of dental healthcare.

It covers in details, together with fundamental Public Health topics, specific dental health problems such as:

- historical development of dental treatment and dental education;
- epidemiological approaches and specific indicators for assessment of dental diseases incidence;
- epidemiological designs for identification of the dental health risk factors;
- assessment designs for the efficiency of the new prevention and treatment methods and materials;
- prevention and promotion of dental health;
- organization, management and funding of healthcare;
- health policy and health legislation;
- management and marketing of dental practice;
- organization of the diagnostic and treatment process;
- dental ergonomics;
- professional risks and pathology in dental practice;
- assessment of healthcare demand, dental services demand;
- international aspects of dental health.

Forms of teaching, monitoring and evaluation:

The course includes lectures and seminars, including practical exercises.

Monitoring and evaluation is done through current control and semester examination - written exams (test) and individual project of the future dental practice.

Content of discipline

Lectures:

No	Title	Academic hours
1.	Historical stages in the development of medicine, dentistry, dental technology and dental education in the world and in Bulgaria.	3
2.	Health. Dental health. Public dental health. Study methods for public dental health.	2
3.	Healthcare as a system. Regulations. Health administration, healthcare and treatment institutions. Dental healthcare in healthcare system.	2
4.	Funding models in healthcare. Study methods for healthcare funding and methods for accumulation of resources and healthcare (dental) services payments	2
5.	Medical law. Health policy and health strategies.	2
6.	Dental healthcare in the European Union – structure, directives, university education, dental medicine practice. International collaboration in the field of dental medicine.	2
7.	Epidemiological approach to studying of dental diseases.	2
8.	Indicators for assessment of oral hygiene and dental diseases incidence in the population.	2
9.	Descriptive epidemiological studies.	2
10.	Analytical epidemiological studies.	2
11.	Experimental epidemiological studies. Risk assessment.	2
12.	Prevention. Levels of prevention. Prevention of caries and oral cancer.	2
13.	Promotion of dental health. Principals and strategies for dental health promotion.	2
14.	Sociological problems relevant to dental practice.	2
15.	Healthcare management.	2
16.	Marketing of healthcare services. Marketing in dental healthcare.	2
17.	Organization of diagnostic and treatment process in dental practice. Patient's posture and personnel working postures. Accessibility spaces.	2
18.	Team work in dental practice. Types of teams. Factors influencing the efficiency of team work.	2
19.	Planning and equipment of dental practice room.	2
20.	Risk factors in dental profession. Prevention of disorders.	2
21.	Infections in dental practice. Cross infection control.	2
22.	Musculoskeletal disorders in dentists.	2
23.	Principles of dental ergonomics.	2
	TOTAL	45

Seminars:

No	Title	Academic hours
1.	Historical accents in medicine, dentistry, dental technology and dental education.	2
2.	Dental health problems and vulnerable population groups	2
3.	Itroduction to the main EU Directives related to dental medicine.	2
4.	Description of international dental organizations, their role and activities.	2
5.	Comparison analysis of the health care funding specifics in different countries. Elaboration of an individual project.	4
6.	Health policy – establishment and current issues. Priorities in the area of dental health care.	2
7.	Provision of dental personnel to the population in the world and in Bulgaria. Comparative analysis.	2
8.	Assessment of healthcare demand. Dental services demand.	4
9.	Management of dental practice. Agreement interactions.	2
10.	Indicators for assessment of caries incidence in population.	4
11.	Indicators for assessment of oral hygiene.	4
12.	Analysis of published studies using an epidemiological study design.	2
13.	Analysis of published studies using an analytical epidemiological study design.	2
14.	Experimental epidemiological studies. Risk assessment.	4
15.	Critical analysis of caries prevention program.	2
16.	Sociological problems relevant to dental practice.	4
17.	Organization of diagnostic and treatment process in dental practice. Patient's posture and personnel working postures. Accessibility spaces	2
18.	Team work in dental practice. Types of teams. Factors influencing the efficiency of team work.	4
19.	Specific characterestics of dental profession. Professional risks and pathology.	2
20.	Design and equipment of dental practice room.	4
21.	Cross infection control in dental practice.	2
22.	Marketing in dental healthcare.	2
	TOTAL	60

Examination Synopsis

PUBLIC DENTAL HEALTH

1. History of dentistry in the world and in Bulgaria.
2. History of dental education in the world and in Bulgaria. Professional organizations.
3. Health. Dental health. Public dental health.
4. Healthcare as a system. Regulations. Organization of inpatient and outpatient health care.
5. International collaboration and organizations in the field of dental medicine.
6. Healthcare funding – main models for healthcare funding according to the traditional study approach.
7. Methods for accumulating of resources for the healthcare systems.
8. Methods for payment of healthcare (dental) services.
9. Health policy. International health and dental health strategies. National health strategy.
10. Approaches to strengthening public dental health.
11. Dental health problems of vulnerable groups.
12. Levels of prevention and primary prevention strategies.
13. Prevention of dental caries and oral cancer.
14. Sociological problems relevant to dental medicine – inequality in dental health, violence.
15. Sociological methods in dental health.
16. Assessment of dental morbidity in population – indicators.
17. Indicators for assessment of caries incidence and severity.
18. Indicators for assessment of periodontitis.
19. Indicators for oral hygiene – OHI-S.
20. Main types of epidemiological studies design.
21. Planning and organization of cross-sectional epidemiological study.
22. Application of case-control study for dental diseases – purpose, advantages and disadvantages.
23. Application of cohort study for dental diseases – purpose, advantages and disadvantages.
24. Application of experimental epidemiological studies in dental medicine.
25. Dental health service. Provision of dental personnel to the population. Factors influencing the development of dental health service.
26. Specific characteristics of dental profession. Professional risks and professional pathology.
27. Principles of dental ergonomics.
28. Design and equipment of dental practice.
29. Organization of diagnostic and treatment process in dental practice. Models of interaction with patients. Patient's posture.
30. Dental practice personnel working postures. Accessibility spaces.
31. Team work in dental practice. Factors influencing the effectiveness of teamwork.
32. Healthcare management. Dental practice management.
33. Marketing. Marketing in dental healthcare.

Literature:

1. Health Act. SG, iss.70/2004 amm. & add.
2. Healthcare institutions Act. SG, iss.62/1999; amm. & add.
3. Health insurance Act. SG, iss.70/1998; amm. & add.
4. Professional organizations of medical doctors and dentists in Republic of Bulgaria Act. SG, iss.83/1998; amm. & add.
5. Stoeva V. Infections in dental practice: prevention and control. Abstract. 2017
6. Katrova L. Public health and healthcare management: Lydia Katrova, "Leading Technologies in Dentistry" company Sofia 2015 ISBN:978-954-90363-2-9. 156 p. (Textbook in English)
7. Katrova L. Basics of dental health and dental practice management ISBN:978-954-90363-4-3. 176 p. Editor: Lydia Katrova, "Leading Technologies in Dentistry" company. Sofia 2015 (Textbook in English)
8. Katrova L. I. Ivanov, M. Ivanov, K. Pejcheva. "Ergonomization" of the working environment and building up of healthy working posture of dental students. Journal of IMAB 2012; vol. 18, book 4:243-250. DOI:105272/jimab.2012184.243. ISSN:1312773X
9. NATIONAL PROGRAM for PREVENTION of ORAL DISEASES in CHILDREN AGED 0-18 in BULGARIA 2015 – 2020.
<https://www.strategy.bg/FileHandler.ashx?fileId=5081>
10. Denham D., J. Gillespie Family Violence Handbook for the Dental Community, 1994, Publications, Health Canada
11. European Global Oral Health Project, Health Surveillance in Europe, European Global Oral Health Indicators Development Project, SPC 2002472, Final Report, 2003-2005
12. WHO, Oral Health Surveys. Basic Methods, 2013, 5th Ed. Geneva
13. MDPI Special Issue "Dental Public Health: Issues, Challenges and Opportunities"https://www.mdpi.com/journal/ijerph/special_issues/dental_public_health
14. Journal of Public Health Dentistry – Wiley Online Library. 2022
<https://onlinelibrary.wiley.com/journal/17527325>

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Protocol №

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