

Odessa National Medical University  
Faculty of Dentistry  
Department of Therapeutic Dentistry

**Syllabus course**  
"Occupational diseases in dentists"  
**(optional component)**

<b>Amount</b>	90 hours / 3.0 credits
<b>Semester, year of study</b>	V semester, 3rd year of study
<b>Days, time, place</b>	Department of Therapeutic Dentistry, according to the schedule
<b>Teacher (s)</b>	Head departments, prof. Skiba V.Ya., associate professors: Ivchenko N.A, Sedletska A.O, Aksinorska O.I, Goncharuk L.V, Zherebko O.M, Koval S.M, Davidenko O.M, Bass O.A, Goncharenko O.V, Gerasimova I.V, assistants: Strochenko E.A, Chumachenko V.A, Dizik S.V, Tsymbalyuk O.G, Bila N.F, Zolotukhina O.L, Dyadyuro O.V
<b>Contact phone</b>	Head of the department, prof. Skiba Vasil Yakovlevich, mobile: 050-552-32-50
<b>E-mail</b>	<a href="mailto:terstomonmedu@gmail.com">terstomonmedu@gmail.com</a>
<b>Workplace</b>	Department of Therapeutic Dentistry, str.Torgova 15
<b>Consultations</b>	<i>Every Wednesday:</i> from 14.30 to 16.00 and <i>on Saturdays:</i> from 8.30 to 13.00, within the academic semester. During the winter holidays: daily from 8.30 to 13.00.

### COMMUNICATION

Communication with students is carried out according to the schedule in the classrooms and the auditoriums. In the case of distance learning, communications can take place online on the Microsoft Teams platform according to the class schedule.

### COURSE ANNOTATION

The subject of study of the selective component is the etiology, pathogenesis of occupational diseases in dentists, harmful factors, preventive measures to prevent the occurrence of occupational diseases in dentists.

**Course prerequisites:** The study program is based on previously acquired knowledge of students in human anatomy, histology, embryology and cytology, medical physics, medical chemistry, Latin, philosophy, foreign language, physiology, pharmacology, ecology and biosafety, clinical immunology, surgical dentistry dentistry, pediatric dentistry, orthodontics.

**Postrequisites of the course:** The knowledge gained by students will help to master the issues of ergonomics in therapeutic dentistry, preventive measures to overcome nosocomial infections, prevention of injuries, allergies, air pollution, vibration disease, etc. The use of modern equipment, professional language, allow to participate in scientific and practical conferences, internships, including abroad.

*The purpose of studying the selective component "Occupational diseases in dentists"* is the formation of students' theoretical knowledge, practical skills and abilities for diagnosis, treatment, prevention of occupational diseases in dentists.

*Tasks of the selective component:* To form in students professional knowledge and skills in diagnosis, treatment and prevention of occupational diseases in dentists.

*Expected results:* As a result of studying the selective component "Occupational diseases in dentists" *the student should know:*

- Organization of the dental office. Functions and responsibilities medical staff.
- Issues of ergonomics and safety.
- Sanitary and hygienic requirements for work in dentistry offices / offices, including junior medical staff.
- Classification of occupational diseases by dentists.
- The main harmful factors that cause occupational diseases.
- Pathogenesis of occupational diseases of dentists.
- Diagnosis, differential diagnosis of occupational diseases.
- Methods of treatment of occupational diseases.
- Methods of prevention of occupational diseases in dentists.
- Norms of working time, qualitative and quantitative indicators of the doctor's work-dentist.

The student must **be able to:**

- Evaluate diagnosis information using standard procedure, based on laboratory and instrumental results research.
- Identify the leading clinical symptom or syndrome.
- To establish the most probable or syndromic diagnosis disease.
- Organize the work of medical staff; form rational medical routes of patients; organize interaction with colleagues.
- Carry out primary and secondary prevention of professionals diseases.
- Form goals and determine the structure of personal activities.
- Demonstrate mastery of moral and deontological principles medical specialist and the principles of professional subordination on therapeutic reception.
- Adhere to a healthy lifestyle, use techniques self-regulation and self-control.
- To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general educational and cultural level.
- Organize the necessary level of individual safety (own and those cared for) in the event of typical dangerous situations in the individual field of activity.

## **COURSE DESCRIPTION**

### **Forms and methods of teaching**

The course includes seminars (20 hours), lectures (10 hours), organization

of independent work of students (60 hours).

Teaching takes place in the form of lectures, Power Point demonstrations and explanations, conversations, analysis of new information. During the seminars a theoretical survey, solving situational problems, compiling algorithms for diagnostic and therapeutic search. It is planned to hold consultations according to the schedule.

**Course content:**

**Section 1.** "Occupational diseases in dentists. Etiology, pathogenesis, clinic, diagnosis, prevention, tactics of the doctor. ":

Topic 1. Hygienic classification of labor by indicators of harmfulness and hazards of production process factors, severity and labor intensity

Topic 2. Equipping the workplace of a dentist: universal dental units and chairs. Safety precautions.

Topic 3. Classification of working conditions. Hygienic standards. Asepsis.

Topic 4. Features of the work of dentists.

Topic 5. Classification of occupational diseases.

Topic 6. Occupational hazards in the work of a dentist.

Topic 7. Sanitary passport. Appointment.

Topic 8. Personal protective equipment and personal safety.

Topic 9. Diagnosis and main clinical manifestations of professional diseases of dentists.

Topic 10. Tactics of the doctor and prevention of occupational diseases.

**List of recommended reading:**

**Basic**

1. V. Borysenko, M. Y. Antonenko, A. F. Nesyn // Oral mucosa diseases.- Odessa, 2015.- 328 p.
2. A. V. Borysenko, M. Y. Antonenko, S. A. Shnayder // Dental caries. Pulpitis. Apical periodontitis. Oral sepsis.- Odessa, 2015. – 314 p.
3. H.Devlin. Operative Dentistry.-2006.- 129 p.
4. Daniel W. A new approach to the treatment of fissure caries / W. Daniel // Clinical dentistry. - 2010. - № 1. - C. 34-38.
5. Information-educational site info.onmedu.edu.ua

**Additional**

1. Bergenholttz G., Horsted-Bingslev P., Reit C. Textbook of Endodontology, ed.2, Chichester: Blackwell Publishing, 2010.
2. Carrotte P. Endodontics. Part 6. Rubber dam and access cavities / P. Carrotte // BDJ. - 2004. - № 197. - P. 527–534.
3. Carrotte P. Helpful hints with rubber dam / P. Carrotte // CPD Dentistry. - 2001. - Vol. 2(3). - P. 82–85.
4. Cohen S., Burns R.C. (eds). Pathway of the pulp, ed.10, St. Louis: CV Mosby, 2010.

5. Devlin H. Operative Dentistry. A Practical Guide to Recent Innovations – 2006. – 129 p.
6. Haapasalo M. Visual Endodontics & Traumatology / M. Haapasalo, S. Fridman // CD.- 2002.
7. Hervás-García A., Martínez-Lozano M.A., Cabanes-Vila J., Barjau-Escribano A., Fos-Galve P. Composite resins. A review of the materials and clinical indications. Med Oral Patol Oral Cir Bucal 2006; 11: E215-20.
8. Hyson J.M. Amalgam: Its history and perils. Jr J Calif Dent Assoc. 2006 Mar; 34(3):215-29.
9. Marshall K. Dental workspace contamination and the role of rubber dam / K. Marshall // CPD Dentistry. - 2001. - Vol. 2. - P. 48–50.
10. Minimal intervention dentistry: a review. FDI Commission Project 1-97 / M. J. Tyas, K. J. Anusavice, J. E. Frencken [et. al.] // International Journal of Dentistry. – 2000. – Vol. 50, № 1. – P. 1-12.
11. Operative Dentistry. Endodontics: in 2 vol.: textbook. Vol 1/ M.Yu. Antonenko, L.F.Sidelnicova, O.F.Nesyn et al.; ed. by Borysenko. – Kyiv: AUS Medicine Publishing, 2016. – 384 p.
12. Rainey J.T. Air abrasion: an emerging standard of care in conservative operative dentistry / J. T. Rainey // Dental Clinics of North America. – 2002. – Vol. 46, № 2. – P. 185-209.
13. Sturdevant's art and science of operative dentistry/ Theodore M. Roberson, Harald O. Heymann, Edward J. Swift, Jr. – ed.4, New York: McGraw-Hill, 2002. – 947 p.

## **EVALUATION**

The Department of Therapeutic Dentistry uses various forms of control of classes in a particular discipline (oral, written, combined, testing, practical skills). The results of students' academic performance are presented in the form of assessment on a national scale, 200-point and ECTS scale and have standardized generalized criteria for assessing knowledge: national scale:

- the grade "excellent" is given to the student who systematically worked during a semester, showed various and deep knowledge of a program material, is able to successfully carry out the tasks provided by the program, has mastered the maintenance of the basic and additional literature, has understood interrelation of separate sections of discipline, their value for the future profession, showed creative abilities in understanding and using educational material, showed the ability to independently update and replenish knowledge; level of competence - high (creative);
- grade "good" is given to a student who has shown full knowledge of the curriculum, successfully completes the tasks provided by the program, mastered the basic literature recommended by the program, showed a sufficient level of knowledge of the discipline and is able to independently update and renew during further study and professional activities; level of competence - sufficient (constructive-variable);

– the grade "satisfactory" is given to the student who has shown knowledge of the basic educational program material in the volume necessary for the further training and the subsequent work on a profession, copes with performance of the tasks provided by the program, has made separate mistakes in answers at performance of tasks. overcoming mistakes under the guidance of a research and teaching staff; level of competence - average (reproductive);

– the grade "unsatisfactory" is given to the student who did not show sufficient knowledge of the basic educational program material, made fundamental mistakes in performance of the tasks provided by the program, cannot use the knowledge at the further training without the teacher's help, failed to master skills of independent work; level of competence - low (receptive-productive).

The multi-point scale characterizes the actual success of each student in mastering the discipline. Conversion of the traditional grade from the discipline to 200-point is performed by the information and computer center of the university program "Contingent" by the formula: average grade point average (current / from the discipline) x 40 national grade point average "5" 185-200 "4" 151-184 "3" 120-150

The ECTS rating scale evaluates the achievements of students in the discipline who study in one course of one specialty, according to their scores, by ranking, namely: ECTS score Statistical indicator "A" best 10% of students "B" next 25% of students "C" »Next 30% of students« D »next 25% of students« E »last 10% of students.

The ECTS scale establishes the student's belonging to the group of the best or worst among the reference group of classmates (faculty, specialty), ie his rating. When converting from a multi-point scale, as a rule, the limits of grades "A", "B", "C", "D", "E" do not coincide with the limits of grades "5", "4", "3" on the traditional scale. Grade "A" on the ECTS scale cannot be equal to grade "excellent", and grade "B" - grade "good" and so on. Students who receive grades "Fx" and "F" ("2") are not included in the list of ranked students. Such students automatically receive a score of "E" after re-assembly. The grade "Fx" is given to students who have scored the minimum number of points for the current educational activity, but who have not been credited with the final control.

Grade "F" is given to students who have attended all classes in the discipline, but did not score an average score (3.00) for current academic activities and are not admitted to the final control.

Current success. Evaluation of the success of studying the topics of the discipline is performed on a traditional 4-point scale. At the seminar students will be interviewed at least once in 3-4 classes (not more than 50% of students. At the end of the semester (cycle) the number of grades in the group is on average the same. entry in the Journal of Student Attendance and Attendance and Student Accounting At the last practical lesson, the teacher provides information to students about the results of their current academic performance

and academic debt (if any), and when completing the curriculum in the discipline fills in the test To increase the average score in the discipline, the current grades "3" or "4" are not rearranged. Semester test. Assessment of students' performance in the discipline, the study of which is provided for two or more semesters, is based on the results of their current performance. Semester credit is given to students who have attended all types of classes in the discipline in the current semester (there are no omissions of lectures and seminars). The average score is not calculated during the semester test. For such students, the teacher puts "enrolled" in the student's record book in the last lesson of the discipline in the semester.

Final credit. Students who have fully completed the curriculum in the discipline do not have academic debt, their average score of current performance is 3.00 or more, in the last class receive a credit, which is set as "passed" / "not credited". Conversion of a traditional national score to a multi-point score (maximum 200 points) is required. If a student receives a minimum grade point average of 3.00 for current performance, even if there are unsatisfactory grades, he receives a credit for the discipline.

**Independent work of students.** Independent work of students is regulated by the curriculum and is performed by students independently according to calendar-thematic plans, is carried out in the form of classroom and extracurricular work. Quality control of students' independent work is carried out at seminars and during the test.

### **COURSE POLICY**

The student must master the theoretical knowledge of the discipline, attend all types and forms of classes provided by the curriculum, perform all types of educational tasks, master the algorithms for diagnosis, treatment and prevention of occupational diseases in dentists, make all kinds of knowledge control.

#### **Deadline and recompilation policy:**

In case of non-appearance during the test of the selective component, students are allowed to re-arrange according to the re-schedule. Missed lectures are completed by students writing an essay and an interview with a lecturer on the topic of the lecture. Missed seminars are completed by students according to the schedule of missed classes for the next teacher (every Wednesday and Saturday within the academic semester).

#### **Academic Integrity Policy:**

The use of prohibited auxiliary materials or technical means (cheat sheets, headphones, telephones, smartphones, etc.) during control measures is unacceptable in educational activities; passing of procedures of control of results of training by fictitious persons.

#### **Attendance and lateness policy:**

Students are required to attend all classes. Missed seminars and lectures must be completed by the student within 2 weeks.

#### **Mobile devices:**

It is allowed to use a smartphone, tablet or other device with the permission of the teacher.

**Behavior in the audience:** Communication is friendly, creative, open to constructive criticism. There is an active business atmosphere in the audience.