

**Odessa National Medical University**  
**Faculty of Dentistry**  
**Department of Orthopedic Dentistry**

**Course syllabus**  
**«Basic technologies of dentures»**

<b>Volume</b>	120 hours/ 4 credits
<b>Semester, year of study</b>	IV Semester (second years of study)
<b>Days, time, place</b>	according to the schedule
<b>Teacher (s)</b>	Head Department Assoc., Doctor of Medical Sciences Rozhko P.D., head teacher of the department assistant Cherednichenko A.V., associate professors, candidate of medical sciences: Ryaboshapko A.A., Burdeyny V.S., Balykov V.V., Kushnir N.V., Shakhnovsky I .V., Rozumenko M.V., assistants to the candidate of medical sciences: Rozumenko V.A .; assistants Adamiv S.I., Lysenko V.V.
<b>Contact phone</b>	number at the department phone number is missing
<b>E-mail</b>	ortstom-onmedu@ukr.net
<b>Workplace</b>	Department of Orthopedic Dentistry, Torgovaya street, 15
<b>Consultations</b>	<i>Face-to-face consultations:</i> 14.30-16.00 hours on Thursday, and 8.30-13.00 hours on Saturday. <i>On-line consultations:</i> conducted by agreement with the teacher, who conducts classes in a group on an individual basis.

**COMMUNICATION**

Communication with students will be carried out in the classroom according to a schedule, as well as using the Microsoft Times, Zoom, E-mail platform, and by phone of the teacher – in the case of distance learning.

**COURSE SUMMARY**

*The subjectom of the discipline* is dental orthopedic treatment of the following types of pathology of the maxillary apparatus: defects of the crown part of individual teeth, partial tooth loss, pathology of hard tissues of teeth.

**Course details:**

The program is based on students ' preliminary study of human anatomy, histology, embryology and cytology, physiology, pathomorphology, pathophysiology, pharmacology, medical physics, microbiology, virology and immunology and is integrated with these disciplines.

*The purpose of teaching the academic discipline* is the professional formation of a future specialist who is able to solve clinical problems using the acquired

knowledge and skills in the discipline, provides for the integration of teaching the discipline with therapeutic, surgical and dentistry of children.

***The main objectives of studying the academic discipline*** "The core technology of dentures" is: to teach students to conduct surveys of patients in a clinical study with the use of dental equipment and tools; to teach students to analyze diagnostic model of patients with different types of pathology of dental apparatus; on the basis of clinical thinking to choose recovery methods defects of the teeth and dentition; to teach students to perform practical skills during clinical patients with different defects of the dentoalveolar apparatus; to teach students solve situational problems, with clinical directions.

Competencies and learning outcomes that the discipline contributes to (the relationship with the normative content of training applicants for higher education, formulated in terms of learning outcomes in AKI).

***Expected results:***

Integrative end program learning outcomes that are promoted by the academic discipline "Basic technologies of dentures":

- On the basis of a survey , examination, and instrumental research, be able to evaluate information about the diagnosis, and make a preliminary and final diagnosis.
- Assign and analyze additional (mandatory and optional) survey methods
- Determine the approach, plan, type and principle of treatment of dental diseases by making an informed decision based on existing algorithms and standard schemes.
- Determine the tactics of providing emergency medical care, using recommended algorithms, in any circumstances based on the diagnosis of an emergency condition in a limited time.
- Comply with the requirements of ethics, bioethics and deontology in their professional activities.
- Organize the necessary level of individual safety (own and those who are taken care of) in the event of typical dangerous situations in the individual field of activity
- Perform medical dental manipulations based on a preliminary and / or final clinical diagnosis for different segments of the population and in different settings.
- Perform manipulations of emergency medical care, using standard schemes, under any circumstances based on the diagnosis of an emergency condition in a limited time.

**COURSE DESCRIPTION**

***Forms and methods of training***

The course will be presented in the form of lectures (16 hours.) and seminars (22-4 hours), organization of independent work of students (80 hours).

When teaching the discipline, the following methods are used: lecturer's story, PowerPoint demonstration and explanation, conversation, briefing, analysis of new information.

During the seminar sessions, the teacher conducts a discussion with pre-defined problems, for which students prepare abstracts based on individually

completed tasks (essays, essays, etc.). During the seminar session, the teacher evaluates the quality of students' individual tasks, their performances, activity in discussion, ability to formulate and defend their position, and so on.

### ***Content of the academic discipline***

1. Clinical examination of patients with defects of teeth and dentition. Special survey methods. Drawing up a treatment plan. Registration of documentation.
2. Modern technologies for manufacturing inlays, pin structures, and artificial crowns.
3. Manufacturing technologies of stamped-soldered, solid-cast, solid-cast with the appearance of bridge prostheses.
4. Modern parallelometer designs. The process of milling wax reproductions and metal frames. Wax modeling. Frame design and design of the intermediate part of the denture.
5. Fixed prostheses with support on implants. Removable dentures supported by implants
6. Modern technologies for manufacturing partial removable plate prostheses.
7. Modern technologies of manufacturing of clasp prosthesis structures.
8. Modern technologies for manufacturing complete removable plate prostheses.

### ***List of recommended literature***

#### **Basic (basic)**

1. Makeev V. F., Stupnitskiy G. M. Teoreticheskie osnovy podopedicheskoi stomatologii [Theoretical foundations of orthopedic dentistry]. Lviv: Daniel Galitsky LNMU, 2010, 394 p.
2. Rozhko N. M., Popovich S. N. and others..Dentistry: textbook: In 2kn Kn. 1 / Kol.: VSV "Medicine", 2016. from 458-462.

#### **Auxiliary system**

1. Nespryadko V. P., Rozhko N. M. Orthopedic dentistry. Kiev. Kniga Plus, 2003.
2. Rozhko N. M., Nespryadko V. P., Mikhaylenko T. N. et al. Zuboprostheznaya tekhnika, Kniga Plus Publ., 2006, 544 p. (in Russian)
3. Fundamentals of deontology in dentistry. Handbook for students and doctors / Ed. by G. P. Ruzin. - Vinnytsia: New Book, 2008. - 120s.
4. Maevski S. V. Stomatologicheskaya gnatofiziologiya [Dental gnatophysiology]. Normy okklyuzii i funktsii stomatologicheskoi sistemy [Norms of occlusion and functions of the dental system].
5. Gumetsky G. A., Rozhko N. M., Zavadka A. N., Skrypnikov P. M. Complications of local anesthesia in the maxillofacial region: A guide in 3 volumes- Lviv: Ivano-Frankivsk: Poltava: Nautilus Publishing House, 2002. - 231 p.

6. Korol M. D., Korobeynikov L. S., Kindiy D. D., Yarkovoy V. V. Odzhubeyska A.D. Tactics of patient supervision in the clinic of orthopedic dentistry. Poltava: Astraya Publ., 2003-52 p.
7. Korol M. D., Korobeynikov L. S., Kindiy D. D., Yarkov V. V. Practical course on orthopedic dentistry. Part II. Poltava: PP "Formica", 2002. - 168 p.
8. Occlusion and clinical practice / ed. by Y. Klineberg, G. Jager; Translated from English; Under the general editorship of M. M. Antonik. - Moscow: MEDpress-inform, 2006 – - 200s.
9. Bernard Tuati, Paul Miara, and Dan Nathanson. Esthetic dentistry and ceramic restorations, translated from English, Moscow: Publishing House "Higher Education and Science", 2004, 448 p.
10. Crispin N. D., Hevlett E. G., Joe Y. H. Modern aesthetic dentistry. Practical bases. Translated from English; Edited by T. F. Vinogradov. - Publishing house "Quintessence", 2003-303 p.
11. Beda V. I. Replacement of dentition defects with fixed denture structures. The lecture. - Kiev, 2001. - 26s.
12. Dental prosthetics. Pomainitsky V. G., Fastovets E. A. Uchebno-metodicheskoe posobie dlya inostrannykh studentov stomatologicheskogo fakulteta [Educational and methodical manual for foreign students of the Dental Faculty].
13. Fundamentals of deontology in dentistry. Handbook for students and doctors / Ed. by G. P. Ruzin. - Vinnytsia: New Book, 2008. - 120s.

## RATINGS

**Current monitoring** is carried out at each practical lesson according to the specific goals of the topics. The assessment of current academic performance is based on the results of:

1. співбесіди на seminar interviews;
2. performing individual work in the classroom.

When mastering each module topic, the student's current academic activity is evaluated on a 4-point traditional scale.

Assessment of independent work:

Independent work of students, which is provided in the topic next to the classroom work, is evaluated during the current control of the topic in the corresponding lesson.

**Final control.** Credit-this form of control for a discipline consists in evaluating the student's assimilation of the discipline's curriculum in full, based on the results of current control. Tests are held at the last lesson in the discipline.

**The final control** in the form of a test is evaluated on a two-point scale:

- the grade "credited" is given to a student who has completed the curriculum of a discipline that does not have academic debt; the level of competence is high (creative);

- the grade "not credited" is given to a student who has not completed the curriculum of the discipline, has an academic debt (the average score is lower than 3.0 and/or missed classes); the level of competence is low (receptive – productive).

***Independent work of students.***

Independent extracurricular work of the student is the main means of mastering the educational material. It includes working out the educational material, preparing for lectures and other types of training sessions, performing individual tasks, research work, etc. and is performed during extracurricular time.

**COURSE POLICY**

***Policy on deadlines and retakes:***

Final control (scoring) is carried out in the audience. If there is no or low result, it will be recalculated according to the schedule

***Academic Integrity Policy:***

Use of prohibited auxiliary materials or technical means (cheat sheets, notes, microphones, phones, smartphones, tablets, etc.) during control events;

***Attendance and lateness policy:***

Students are required to attend all types of training sessions.

***Mobile devices:***

Use mobile devices only with the teacher's permission.

***Audience behavior:***

Active business atmosphere.