

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

**Course syllabus**  
**"Modern technologies of solid-cast prosthetics"**

<b>Volume</b>	of 120 hours/ 4 credits
<b>Semester, year of study</b>	IV semester (second year of study)
<b>Days, time, place</b>	The time and place (number of the lecture hall, auditorium) of the discipline is determined according to the approved schedule of classes.
<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 on Thursday, and 8.30 – 13.00 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 subject of study of the discipline* is dental orthopedic treatment of the following types of pathology of the dentoalveolar apparatus: defects in the crown part of individual teeth, partial tooth loss, excessive erasure of hard tooth tissues, dental prosthetics on implants.

**Course details:**

Discipline "Modern technologies of solid-cast prosthetics" are based on students' study of morphological disciplines, physiology, pharmacology, pathomorphology, pathophysiology, propaedeutics of orthopedic dentistry, orthopedic dentistry.

***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 an academic discipline are:*** "Modern technologies-cast prosthetics" 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 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 final program results of training, the formation of which is promoted by the academic discipline "Orthopedic Dentistry", including implantology":

–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 (24 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 on pre-defined problems, for which students prepare abstracts *виступів* 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. Modern clinical examination of patients with defects of teeth and dentition. Special survey methods. Drawing up a treatment plan.
2. Organization *роботи* of the dental laboratory work. Infection control. Evaluation and monitoring of *виконанням* work performance. Registration *наряду* (замовлення) of a work order.
3. Modern basic and auxiliary materials for the manufacture of fixed and removable dentures.
4. Modern tools for *препарування* dental preparation. Types, and their characteristics. Application in *р*various preparation techniques.
5. Selection of *сплавів* various metal alloys for cermet restorations.. Casting of solid cast frames of bridge prostheses. Technology *литва* of performing all-ceramic restorations.
6. Modern techniques of dental restoration after endodontic treatment.
7. *Імедіат* *протезы*. Indications for use. *Технології* Manufacturing technologies. Fixing materials and *техніка* cementing techniques for fixed structures.
8. Cermet and metal -free restorations. Aesthetic characteristics and *процес* *відтворення* restoration color reproduction process *реставрації*.
9. Modern manufacturing of non-*імнін* and removable prostheses *з*based on implants
10. Errors and their complications in solid-cast fixed and removable prosthetics. *Методи* Troubleshooting methods.

### ***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 Books. 1 / Kol.: VSV "Meditsina", 2016, pp. 458-462.
3. Nespryadko V. P., Kuts P. V. Dental implantology. Fundamentals of theory and practice. Kharkiv: VPP Kontrakt Publ., 2009, 292 p.

#### ***Auxiliary system***

1. Nespryadko V. P., Rozhko N. M. Orthopedic dentistry. Kiev. Kniga Plus, 2003.

2. Rozhko N. M., Nespriyadko V. P., Mikhaylenko T. N. et al. Zuboprostheznaya tekhnika, Kniga Plus Publ., 2006, 544 p. (in Russian)
3. Fundamentals of deontology in dentistry. Manual for students and doctors /ПодEdited by G. P. Ruzin. - Vinnytsia: New Book, 2008. - 120s.
4. Majewski S. V. Dental gnathophysiology. Нормы Occlusion norms and functions of the dental system /Majewski S. V.-Lviv: GalDent. - 2008. - 144s.
5. Gumetsky G. A., Rozhko N. M., Zavadka A. Is., Skrypnikov P. M. Complications of local anesthesia in the maxillofacial region: A guide in 3 volumes-Lviv: Ivano-Frankivsk: Poltava: Publishing House "Nautilus", 2002. - 231 p.
6. King M. D., Korobeynikov L. S., Kindiy D. D., Yarkovoy V. V. Odzhubeyska A. D. Tactics of кypaцiïpatient supervision in the clinic of orthopedic dentistry. Poltava: Astraya Publ., 2003-52 p.
7. King M. D., Korobeynikov L. S., Kindiy D. D., Yarkovoy V. V. Practical course on orthopedic dentistry. Part II. Poltava: PP "Formica, 2002, 168 p. (in Russian)
8. Occlusion and clinical practice под. Klineberg, Germany Jager; Translated from English. Under total. edited by M. M. Antonika, Moscow: MEDpress-inform, 2006 – - 200s.
9. Bernard Tuati, Paul Miara, Dan Nathanson. Esthetic dentistry and ceramic restorations. Translated from English-Moscow: Publishing House Home "Higher Education and Science", 2004, 448 p.
10. Crispin N. D., Hevlett E. G., Joe Y. H. Modern aesthetic dentistry. Practical basics. Translated from English. ПодEdited 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. Educational and methodical manual for foreign students стоматологического of the Faculty of Dentistry // Pomainitsky V. G., Fastovets E. A. : Dnepropetrovsk, OK "Pechatnik" Publ., 2004. - 60s.
13. Fundamentals of deontology in dentistry. Manual for students and doctors /ПодEdited 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.