



Prosthetic dentistry

1. IMPRINT	
Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical sciences
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full-time program
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Exam
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Prosthodontics St. Binięckiego str. 6, 02-097 Warsaw Phone: 22 116 64 70 Mail: katedraprotetyki@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Prof. Jolanta Kostrzewa-Janicka, DDS, PhD	
Course coordinator (title, First Name, Last Name, contact)	Prof. Jolanta Kostrzewa-Janicka, DDS, PhD, St. Binieckiego str. 6, 02-097 Warsaw Phone: 22 116 64 70 Mail: katedraprotetyki@wum.edu.pl	
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Krzysztof Majchrzak, DDS, PhD Mail: Krzysztof.majchrzak@wum.edu.pl	
Teachers	Prof. Jolanta Kostrzewa, DDS, PhD Kamila Wróbel-Bednarz DDS, PhD Magdalena Rączkiewicz DDS Daniel Surowiecki, DDS Marta Jaworska, DDS, PhD Piotr Stendera DDS, PhD Mariusz Cierech DDS, PhD Krzysztof Majchrzak, DDS, PhD, Marcin Szerszeń, DDS Marcin Kubani	jolanta.kostrzewa-janicka@wum.edu.pl kamila.wrobel@wum.edu.pl mraczkiewicz@wum.edu.pl daniel.surowiecki@wum.edu.pl marta.jaworska-zaremba@wum.edu.pl pstendera@wum.edu.pl mcierech@wum.edu.pl krzysztof.majchrzak@wum.edu.pl mszerszen@wum.edu.pl mkubani@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	V, IX and X semester	Number of ECTS credits	10
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		0	
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		151	5
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		150	5

3. COURSE OBJECTIVES

O1	Acquiring knowledge of the morphology and physiology of stomatognathic system in terms of interdisciplinary rehabilitation, taking into account occlusion in individual prosthetic restorations depending on the stage of the patient's individual development.
O2	Acquiring knowledge about planning and preparation for prosthetic treatment, establishing an individual treatment plan and multi-specialist cooperation in holistic dental care, including the correct keeping of medical records
O3	Acquiring knowledge about the types of prosthetic restorations, indications and contraindications to their use as well as clinical and laboratory procedures in the implementation of these restorations, including procedures in the field of aesthetic dentistry and implantology
O4	Acquiring the ability to choose dental materials when providing all types of prosthetic restorations.
O5	Acquisition of clinical management skills in simple clinical cases of prosthetic rehabilitation of patients with morphological disorders of the stomatognathic system, design of prosthetic restorations and cooperation with technician
O6	Acquiring the ability to diagnose functional disorders of the stomatognathic system and treatment algorithms depending on the type of disorder.
O7	Preparing students for independent practice in the field of prosthetic rehabilitation of patients and interdisciplinary treatment of patients in a multidisciplinary team, taking into account the doctor's behavior pattern, the way of building trust and approach to the patient and other team members participating in the treatment process.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning
(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)

Knowledge – Graduate* knows and understands:

A.W2.	development of organs and the whole organism, with particular emphasis on the masticatory system;
B.W8.	mechanics of the masticatory apparatus;
C.W23.	dental office equipment and instruments used in dental procedures;
C.W24.	definition and classification of basic and auxiliary dental materials;
C.W25.	composition, structure, method of bonding, properties, purpose and method of using dental materials;
C.W28.	basic clinical procedures for dental hard tissue reconstruction and endodontic treatment as well as methods and technical and laboratory procedures for prosthetic restorations
F.W1.	occlusal norms at various stages of individual development and deviations from the norms
F.W2.	mechanisms leading to organ and systemic pathologies (including infectious, invasive, autoimmune, immunodeficiency, metabolic and genetic diseases)

F.W3.	knows the rules of prophylactic and therapeutic procedures in diseases of the masticatory organ at various stages of development
F.W4.	viral, bacterial and fungal flora of the oral cavity and its importance
F.W6.	rules of local anesthesia of the tissues of the masticatory organ
F.W12.	indications and contraindications for treatment with the use of dental implants
F.W13.	indications and contraindications for cosmetic dentistry procedures
F.W14.	causes and rules of conduct in the case of complications of the stomatognathic system diseases
F.W16.	methods of rehabilitation of the masticatory system
F.W19.	principles of anesthesia in dental procedures and basic pharmacological agents
F.W21.	principles of radiological diagnostics
F.W22.	pathomechanism of the influence of oral cavity diseases on general health

Skills– Graduate* is able to:

A.U2.	explain the anatomical rationale of the physical examination
B.U1.	relate chemical phenomena to the processes taking place in the oral cavity;
B.U2.	interpret physical phenomena occurring in the masticatory organ
C.U4.	predict and explain complex pathomechanisms of disorders leading to the development of diseases;
C.U5.	analyze the clinical course of diseases in pathological processes;
C.U11.	select restorative, prosthetic and bonding biomaterials based on the properties of the materials and clinical conditions;
C.U12.	reproduce anatomic occlusal relations and analyze the occlusion;
C.U13.	design prosthodontic restorations in accordance with the principles of their laboratory preparation;
D.U5.	take actions to improve the patient's quality of life and prevent its deterioration in the future;
E.U11.	diagnose headaches and face pains as well as neurological diseases of adults and children that pose problems in dental practice;
F.U1.	conduct a medical interview with the patient or his family;
F.U2.	conduct a dental physical examination of the patient;
F.U3.	explain to the patient the essence of his ailments, establish the treatment method confirmed by the patient's informed consent and the prognosis;
F.U6.	interpret the results of additional tests and consultations;
F.U7.	determine indications and contraindications for a specific dental procedure;

F.U11.	know the rules of conduct in the event of general and local complications during dental procedures and after dental procedures
F.U12.	prescribe medications, taking into account their interactions and side effects
F.U13.	keep current patient records, writes out referrals for tests or specialist dental and general medical treatment
F.U19.	use the correct medications during and after dental surgery to relieve pain and anxiety
F.U25.	carry out prosthetic rehabilitation in simple cases in the field of clinical and laboratory procedures

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	-
Skills– Graduate is able to:	
S1	-
Social Competencies – Graduate is ready for:	
SC1	-

6. CLASSES		
Form of class	Class contents	Effects of Learning
Exercises	<p>E1-E38. Classes are held twice a week, clinical classes last 4 didactic hours.</p> <p>The subject consists of the series of exercises is the prosthetic rehabilitation of patients (in a holistic approach) with the use of various types of prosthetic restorations, depending on the indications, condition of the prosthetic foundation, general health and age of the patient.</p> <p>The optimal choice of prosthetic restorations under specific conditions of prosthetic foundation, using all types of prosthetic restorations.</p> <p>Implantological treatment with the use of OVD prostheses.</p> <p>Interdisciplinary treatment.</p> <p>Diagnostics of functional disorders of the masticatory organ.</p> <p>Course content: patient examination, analysis of the morphological and functional state of the masticatory organ and additional tests: presenting and discussing possible treatment plans, determining the optimal treatment plan, taking into account indications and contraindications for the use of individual prosthetic restorations,</p>	<p>A.W2., A.U2., B.W8., B.U1., B.U2., C.W23., C.W24., C.W25., C.W28., C.U4., C.U5., C.U11., C.U12., C.U13., D.U5., E.U11., F.W1., F.W2., F.W3., F.W4., F.W6., F.W12., F.W13., F.W14., F.W16., F.W19., F.W21., F.W22., F.U1., F.U2., F.U3., F.U6., F.U7., F.U11., F.U12., F.U13., F.U19., F.U25.</p>

	clinical and laboratory procedures in the implementation of the above-mentioned restorations, cooperation in a therapeutic team. Follow-up care.	
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7. LITERATURE

Obligatory

1. I. Hayakawa: Principles and Practices of Complete Dentures. Quintessence Publ. Co Ltd 2001.
2. H.T. Shillingburg: Fundamentals of Fied Prosthodontis. Quintessence Publ. Co Ltd 1997.
3. A.B. Carr, G.P Mc Ginvey, D.T. Brown: McCracken's Removable Partial Prosthodontics. St. Louis: Mosby 2004.
4. R.G. Craig, J. M Powers: Restorative Dental Materials. Mosby 2002.

Supplementary

1. R.M. Basker, J.C. Davenport: Prosthetic Treatment of the Edentulous Patient. Blackwell Munksgaard 2002.
2. J.A. Hobkirk, R.M. Watson, L. Searson: Introducing Dental Implants. Churhill Livingstone 2003

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.W1, G.U1, K1</i>	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
Knowledge: A.W2., A.U2., B.W8., B.U1., B.U2., C.W23., C.W24., C.W25., C.W28., C.U4., C.U5., C.U11., C.U12., C.U13., E.U11., F.W1., F.W2., F.W3., F.W4., F.W6., F.W12., F.W13., F.W14., F.W16., F.W19., F.W21., F.W22., F.U1., F.U2., F.U3., F.U6., F.U7., F.U11., F.U12., F.U13., F.U19., F.U25.	<p>Completion of exercises is based on: student theoretical preparation for clinical classes, active participation and his evaluation by the teacher .</p> <p>The evaluation concerns:</p> <p>the proper way of performing medical procedures, theoretical knowledge (oral and written tests from different fields of prosthetic dentistry), theoretical preparation for clinical classes - oral verification of preparation for each clinical procedure, behavior towards the patient, teacher, medical team</p> <p>Attendance at all exercises is obligatory - even justified absences result in the necessity to make up for the exercises.</p>	<p>Assessment criteria</p> <p>Written tests:</p> <p>2.0 (failed) <60%</p> <p>3.0 (satisfactory) 60-65%</p> <p>3.5 (rather good) 66-70%</p> <p>4.0 (good) 71-75%</p> <p>4.5 (more than good) 76-80%</p> <p>5.0 (very good)> 80%</p> <p>Oral tests:</p> <p>2.0 (failed)</p> <p>3.0 (satisfactory)</p> <p>3.5 (rather good)</p> <p>4.0 (good)</p> <p>4.5 (more than good)</p> <p>5.0 (very good)</p>
Skills: A.W2., A.U2., B.W8., B.U1., B.U2., C.W23., C.W24., C.W25., C.W28., C.U4., C.U5., C.U11., C.U12., C.U13., E.U11., F.W1., F.W2., F.W3., F.W4., F.W6., F.W12., F.W13., F.W14., F.W16., F.W19., F.W21., F.W22., F.U1., F.U2., F.U3., F.U6., F.U7.	<p>The final grade for the fifth year exercisers includes three components:</p> <ol style="list-style-type: none"> 1. Theoretical knowledge - oral or written test 2. Practice (clinical work with the patient, performing various types of prosthetic restorations) 3. Way of behavior towards patient, assistant, technician <p>The grade is the average from points 1,2,3.</p>	<p>Assessment criteria</p> <p>Written tests:</p> <p>2.0 (failed) <60%</p> <p>3.0 (satisfactory) 60-65%</p> <p>3.5 (rather good) 66-70%</p> <p>4.0 (good) 71-75%</p> <p>4.5 (more than good) 76-80%</p> <p>5.0 (very good)> 80%</p> <p>Oral tests:</p> <p>2.0 (failed)</p> <p>3.0 (satisfactory)</p> <p>3.5 (rather good)</p>

		<p>4.0 (good) 4.5 (more than good) 5.0 (very good)</p> <p>5.0- student interested in the subject, theoretical basics mastered to a very good degree, with good manual skills, well-mannered, correct approach to the patient, technician, teacher. He applies the acquired knowledge in practice, makes correct diagnoses, logically formulates conclusions regarding the planning and course of treatment.</p> <p>4.5- meets the above criteria to an over good degree</p> <p>4.0 - meets the above criteria to a good degree</p> <p>3.5- meets the above criteria to a fairly good degree</p> <p>3.0- meets the above criteria sufficiently</p> <p>2.0- insufficient knowledge of the learning outcomes, does not meet the above criteria</p>
<p>Final Diploma Practical Examination</p>	<p>The form of evaluating of clinical skills acquired during practical learning of the subject at the Department of Prosthodontic Dentistry in the third, fourth and fifth year. Verification of learning outcomes achieved in the category of knowledge and skills in the field of communication, manual procedures and procedure algorithms - direct observation of the student demonstrating the skills over time in traditional clinical examination (performing the procedure on a patient and the theoretical part, which consists of oral answers to 3 randomly selected questions) or the OSCE standardized examination.</p>	<p>5.0 - student interested in the subject, theoretical basics mastered to a very good degree, with good manual skills, well-mannered, correct approach to the patient, technician, teacher. He applies the acquired knowledge in practice, makes correct diagnoses, logically formulates conclusions regarding the planning and course of treatment.</p> <p>4.5 - meets the above criteria to an over good degree</p> <p>4.0 - meets the above criteria to a good degree</p> <p>3.5 - meets the above criteria to a fairly good degree</p> <p>3.0 - meets the above criteria sufficiently</p> <p>2.0 - insufficient knowledge of the learning outcomes, does not meet the above criteria</p>

Final Diploma Test Examination	The exam is in form of test, which contains 100 single-choice questions. The minimum necessary to pass is 60% of correct answers. The online/ stationary exam mode depends on the epidemiological situation	60% of correct answers passes, grades are established after the evaluation of test results.
Final Diploma Exam Final grade	<p>The final grade is an average of grades from:</p> <ul style="list-style-type: none"> • exercises for the fourth and fifth year (20%), • practical exam (30%) • test examination (50%). <p>Failure to pass any part of the diploma examination (practical exam, test exam) results in receiving a fail grade and necessity to retake the exam in second given term.</p> <p>An earlier date of the oral diploma examination is possible for students who obtained an average of 4.8 in the fourth and fifth years and from the practical exam (<u>including a grade of 5.0 in the 5th year classes</u>), <u>participated in the work of the student scientific association which resulted in scientific publication</u>. An earlier date of the oral diploma examination is treated as the first term, replacing the test. Examination material scope covers knowledge from lectures, seminars, exercises for years III, IV and V.</p> <p>The online/ stationary exam mode depends on the epidemiological situation.</p>	

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

1. The person responsible for teaching in the 5th year: Magdalena Rączkiewicz, DDS,
2. Students scientific association , trustee Marcin Szerszeń, DDS, Phd; Kamila Wróbel- Bednarz DDS, Phd., Marcin Szerszeń: mszerszen@wum.edu.pl
3. Information about the diploma examination (table 8)
4. All absences from the exercises must be made up for after prior arrangement with the supervising teacher
5. Student is obliged to wear protective clothes during classes (including shoes) and an identifier containing the following information: student, year, name, surname. Bags must be stored in lockers located in clinical rooms.
6. It is unacceptable not to follow the rules of Occupational Health and Safety.
7. Please be on time to attend classes. Being late more than 15 minutes is treated as an absence.
8. It is forbidden to use mobile phones during classes and in clinical rooms.

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