



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 science
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>	completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Prosthetic Dentistry 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 Phone: 22 116 64 70 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 kmajchrzak@wum.edu.pl mszerszen@wum.edu.pl mkubani@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	IV year, VII and VIII semester	Number of ECTS credits	7
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		16	0,6
Seminar (S)		10	0,3
Discussions (D)			
e-learning (e-L)		16 (lectures)	
Practical classes (PC)		118	4,7
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		35	1,4

3. COURSE OBJECTIVES

O1	Acquisition of knowledge in the field of masticatory system development, morphology and physiology of the stomatognathic system in the aspect of patient examination and planning of prosthetic rehabilitation in simple clinical cases.
O2	Acquisition of knowledge in the field of physical and chemical processes occurring in the human body as well as mechanics and physiology of the masticatory organ in relation to the clinical course of changes and pathological processes occurring within the masticatory organ
O3	Acquiring knowledge regarding planning and preparation for prosthetic treatment, taking into account the principles of prophylactic and therapeutic management in disorders of the stomatognathic system
O4	Acquiring knowledge about types of prosthetic restorations, indications and contraindications for their use as well as clinical and laboratory procedures in the implementation of these 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 skills of talking with the patient, building trust, principles of motivating the patient to health-promoting behaviors, shaping the right attitude and behavioral patterns in relation to the patient and the therapeutic team.

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.	principles of prophylactic and therapeutic procedures in diseases of the masticatory system at various stages of development;
F.W3.	viral, bacterial and fungal flora of the oral cavity and its importance;
F.W10.	indications and contraindications for treatment with the use of dental implants;

F.W11.	indications and contraindications for esthetic dentistry procedures;
F.W12.	causes of complications of the stomatognathic system diseases and the principles of management in case of such complications;
F.W14.	principles of antibiotic therapy and antibiotic resistance;
F.W18.	principles of radiological diagnostics;
F.W19.	pathomechanism of the influence of oral cavity diseases on general health;
F.W20.	pathomechanism of the impact of general diseases or therapies on the oral cavity;
F.W21.	prophylaxis of oral diseases;
D.W14.	the imperative and pattern of behavior of a doctor and dentist established by the professional self-government of doctors and dentists;
G.W19.	principles of occupational health and safety in dentistry;
G.W27.	principles of medical ethics and deontology, ethical problems of modern medicine resulting from the dynamic development of biomedical science and technologies, as well as the principles of ethical conduct of a dentist;
Skills– Graduate* is able to:	
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;
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.U9.	proceed in the event of general and local complications during and after dental procedures;
F.U10.	prescribe medications taking into account their interactions and side effects
F.U11.	keep current patient records, prescribe referrals for tests or for a specialized dental and medical treatment;

F.U16.	use appropriate medications during and after dental surgery to relieve pain and anxiety;
F.U22.	perform prosthodontic rehabilitation in simple cases including clinical and laboratory procedures;
E.U11.	diagnose headaches and face pains as well as neurological diseases of adults and children that pose problems in dental practice;

* 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:	
Skills– Graduate is able to:	
Social Competencies – Graduate is ready for:	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures VII semester (e-learning)	LECTURE 1: Piotr Stendera DDS, PhD Topic: General characteristics of the prosthetic procedures. Anatomy, physiology and development of the masticatory system in terms of prosthetic treatment. Indications for restoring missing teeth. Application of removable partial dentures and an outline of the technique of their fabrication. Clinical and laboratory management. Discussion of other types of removable dentures. Functioning of the dental office in terms of prosthetic procedures.	A.W2., B.W8., C.W23., C.W25 C.W28., F.W1., F.W2., F.W3.,
	LECTURE 2: Piotr Stendera DDS, PhD Topic: Making of removable dentures. Detailed discussion regarding particular steps in performing removable dentures. Clinical and laboratory stages. Basic and auxiliary dental materials.	C.W24., C.W25., C.W28.
	LECTURE 3: Piotr Stendera DDS, PhD Topic: Making of of cast metal dentures. Parts of cast metal dentures and their functions. Surveying. Principles of designing of all structural elements.	C.W23., C.W24., C.W28.
	LECTURE 4: Piotr Stendera DDS, PhD Topic: Making of cast metal dentures (continuation). Clinical stages of fabrication of cast metal dentures. Principles of skeletal dentures construction on the basis of parallelometric analysis (surveying)	F.W.3., C.W.23., C.W.24., C.W.28.

	<p>LECTURE 5: Piotr Stendera DDS, PhD Topic: Summary of clinical proceedings in the fabrication of removable dentures. Removable dentures in prosthetic rehabilitation after surgical procedures. Problems related to the long-term use of dentures</p> <p>LECTURE 6: Piotr Stendera DDS, PhD Topic: The influence of cast metal dentures long-term usage on the stomatognathic system. Examples of different designs of cast metal dentures. Follow-up care. Prevention and treatment of complications. Overview of laboratory devices and materials necessary in fabrication of cast metal dentures. Periotest.</p> <p>LECTURE 7: Piotr Stendera DDS, PhD Topic: Cast metal dentures – video clip. Contents: Presentation of the video clip “Cast metal partial denture”. Additional discussion of individual laboratory stages in the fabrication of skeletal dentures. Presentation of modern computer methods that can be used in manufacturing of skeletal dentures.</p>	<p>A.W2. B.W8., F.W2., F.W3., F.W20., F.W21.</p> <p>C.W23., C.W24., C.W28., F.W2., F.W14.</p> <p>C.W23., C.W24., C.W28., F.W2., F.W14</p>
<p>Lectures VIII semester</p>	<p>Lecture 1: Marta Jaworska, DDS, PhD Topic: Planning and preparation for prosthetic treatment. Characteristics of the anatomy, physiology and changes in the masticatory organ with age in terms of prosthetic rehabilitation. Therapeutic goals and functions of modern dental prosthetics. Clinical examination and pre-prosthetic diagnostics (including radiological). To assess the impact of oral diseases on general health. Mistakes made at the treatment planning stage.</p> <p>Lecture 2: Prof. Jolanta Kostrzewa –Janicka, DDS, PhD Topic: The importance of occlusion in prosthetic treatment Functional and morphological relationships within the masticatory organ. Clinical examination of the masticatory organ before rehabilitation of occlusion. Masticatory organ diagnostics. A detailed discussion of definitions related to masticatory organ. Teeth occlusal contacts in static and dynamic occlusion. Preventive and curative aspects of occlusion analysis.</p> <p>Lecture 3: Krzysztof Majchrzak, DDS, PhD Topic: Immediate dentures. Definition of immediate dentures. Indications. Relative and absolute contraindications. Advantages of using immediate dentures. Treatment planning. Clinical and laboratory management. Follow up care. Presentation of clinical cases.</p> <p>Lecture 4: Krzysztof Majchrzak, DDS, PhD Topic: Prosthetic management after extensive surgical procedures. Epidemiology of head and neck tumors. Carcinogenic factors. General principles of treating head and neck tumors. Morphological and functional disorders in patients after surgeries of facial tumors. Procedure algorithm at the Department of Prosthetic Dentistry. Fabrication of prostheses for patients after surgical procedures. Prophylactic function of prosthetic rehabilitation. Clinical cases. Elements of oncological prophylaxis.</p>	<p>A.W2., B.W8., C.W28., F.W1., F.W2., F.W3., F.W12., F.W14., F.W21.</p> <p>A.W2., B.W8., C.W28., F.W1., F.W3., F.W21.</p> <p>C.W28., F.W1., F.W2., F.W3., F.W14., F.W21.</p> <p>B.W8., C.W28., F.W1., F.W2., F.W3., F.W12., F.W14., F.W18., F.W21.</p>

	<p>Lecture 5: Prof. Jolanta Kostrzewa –Janicka, DDS, PhD Topic: Functional disorders of the masticatory organ. Reminder of the anatomy and physiology of masticatory organ and occlusion. Etiology of temporomandibular diseases (functional disorders within the masticatory system). Diagnostics of the motor system of the masticatory apparatus (clinical examination and additional examinations, including radiological examinations). Classification of temporomandibular diseases. Differential diagnosis. Initial treatment. Prevention of functional disorders of the masticatory organ in terms of its effect on general health.</p> <p>Lecture 6: Prof. Jolanta Kostrzewa –Janicka, DDS, PhD Topic: Treatment of patients with occlusion disorders. Effects of occlusion disorders - signs of disorders at the level of dental tissues, periodontium, masticatory muscles and temporomandibular joints. Definition of occlusion disorders. Aims of occlusal therapy. Indications for starting occlusal therapy. Pre-prosthetic and prosthetic treatment of patients with occlusion disorders. Presentation of cases of patients with occlusion disorders treated at the Department of Prosthetic Dentistry, Medical University of Warsaw.</p> <p>Lecture 7: Krzysztof Majchrzak, DDS, PhD Topic: Prosthetic treatment of adolescent patients with congenital defects. Aims of prosthetic treatment of adolescent patients. Interdisciplinary approach of treatment. Division into age categories. Prosthetic solutions in individual age categories. Additional examinations (including radiological examinations). Cleft palate - epidemiology, effect on general health. Clinical cases. Hypodontics - epidemiology, examples of prosthetic procedures. Enamel and dentin structure disorders, a clinical case.</p> <p>Lecture 8: Krzysztof Majchrzak, DDS, PhD Topic: Prosthetic rehabilitation with overdenture. Definition, types, advantages and disadvantages of OVD prostheses. Indications for use depending on anatomical conditions. Treatment planning with the use of OVD prostheses supported by residual dentition. Clinical examination for OVD prostheses. Retention elements and their assembly. Overdenture supported by intraosseous implants - indications, contraindications. Hygiene rules for OVD prostheses and retention elements. Problems that may occur while using OVD prostheses.</p> <p>Lecture 9: Bohdan Bączkowski, DDS, PhD Topic: Dental implants. Historical view. Factors influencing the integration of the intraosseous implant. The phenomenon of osseointegration. Characteristics of implants and implantological abutments. Assessment of the bone foundation in terms of long-term use of implants. Techniques of surgical implant placement. Types of loads. Indications and contraindications for implant prosthetic treatment. Treatment planning. Clinical management. Toronto bridge. Aesthetic aspects in implantology treatment. "All on 4" solutions. Summary of the lecture</p>	<p>B.W8., C.W28., F.W1., F.W3., F.W14., F.W18., F.W21.</p> <p>C.W28., F.W1., F.W3., F.W14., F.W18.</p> <p>A.W2., B.W8., C.W28., F.W1., F.W2., F.W3., F.W12., F.W14., F.W21.</p> <p>A.W2., B.W8., C.W28., F.W1., F.W2., F.W3., F.W14., F.W18., F.W21.</p> <p>A.W2., B.W8., C.W28., F.W1., F.W2., F.W3., F.W10., F.W12., F.W14., F.W18., F.W21.</p>
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<p>Seminars (topic of particular seminar will be chosen by teacher responsible for classes)</p>	<p>SEMINAR 1 Topic: Treatment planning and preparation for prosthetic treatment. Therapeutic goals and functions of modern dental prosthetics. Treatment plan (components, conditions for the success of prosthetic treatment). Examination of the patient. Mistakes made at the treatment planning stage. Interdisciplinary preparation of the patient for prosthetic treatment. Influence of oral cavity diseases on general health.</p> <p>SEMINAR 2 Topic: Occlusion issues in dental prosthetics. The importance of occlusion in prosthetic treatment. Clinical examination (dental and functional targeting masticatory organ). Additional examinations. Mandibular articulation. Parameters of the temporomandibular joints (articular pathway angle, Bennett's angle, Bennett's movement, immediate lateral shift). Occlusal determinants (key features).</p> <p>SEMINAR 3: Topic: Face bows and articulators. Purpose of plaster models mounting in articulator. Mandibular movements and ways of describing them. Historical outline of occludators and articulators. Definitions and classification. Construction of the articulator. Parameters used to set articulators. Examples of articulators used today. Function, types and structure of the facebows. Ways of fixing and transferring relations of gypsum models. Using an individually adjustable articulator. Basic and auxiliary materials in dental technology.</p> <p>SEMINAR 4: Topic: Partial dentures, repairs and stomatopathies. Partial dentures. (Definition, indications, requirements for non-removable partial dentures, clinical management). Repairs. (Causes of damage to prosthetic restorations, methods of repairing various prosthetic restorations). Stomatopathies. (Definition, causes, factors contributing to the occurrence, symptoms, differentiation, clinical examination, treatment, prophylaxis).</p> <p>SEMINAR 5: Topic: Parallelometric analysis and design of cast metal dentures. Parallelometric analysis - definition, goals and stages. Construction of a dental surveyor. The stages of analysis and the definitions necessary to carry it out. Types and structure of components of cast metal dentures. Rigid periodontal supports - types and applications. Presentation on examples of clinical works.</p> <p>SEMINAR 6: Topic: Cast metal dentures (skeletal prostheses - clinical management, laboratory execution) Cast metal denture - definition, indications and contraindications to perform depending on the structure and function of the stomatognathic system. Structural elements of a skeletal prosthesis. Pre-prosthetic diagnosis. Presentation of subsequent clinical visits in the fabrication of cast metal dentures. Overall health impact assessment.</p>	<p>B.W8., F.W1., F.W21., C.U12., F.U6.</p> <p>C.W23., C.W24., C.W25., C.W28., F.W1., F.W3., F.W14.</p> <p>F.W2., F.W3., F.W14., C.U11., F.U6.</p> <p>C.W28., C.U11., C.U12., C.U13., F.U6.</p> <p>A.W2., B.W8., C.W28., F.W1., F.W2., F.W3., F.W14., F.W21., F.W22., C.U12., F.U6.</p> <p>C.W28., F.W2., F.W3., F.W14., F.W21., C.U11., C.U12., C.U13., F.U6.</p>
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	<p>Stages of laboratory performance as a correlated procedure with clinical visits. Master casts and their initial preparation for duplication, including surveying and design.</p> <p>SEMINAR 7: Topic: Prosthetic crowns and methods of cementation. Division of prosthetic crowns. Pre-prosthetic preparation and diagnostics. Preparation of the abutment tooth for the crown. Impressions. Cements, types and characteristics.</p> <p>SEMINAR 8: Topic: Dental bridges (fixed partial dentures) Definitions, indications, contraindications, division. Components. Span biomechanics. Clinical management from planning to delivery.</p> <p>SEMINAR 9: Topic: Dental posts. The division of dental posts. Assessment of abutment teeth. Planning and diagnostics. Indications and contraindications. Selection of materials.</p> <p>SEMINAR 10: Topic: Overdenture (OVD) and relines. Definition of OVD prostheses and their influence on stomatognathic functions. Indications and contraindications. Advantages and disadvantages. Types of retention elements for OVD dentures. Clinical procedure in the manufacture of OVD prostheses. Installation of retention elements in the denture. Implant prosthetic treatment of edentulous patients with the use of OVD prostheses. Denture relining - definition, methods, indications, contraindications and impact on general health.</p>	<p>C.W28., F.W2., F.W3., F.W14., F.W21., C.U11., C.U12., F.U6.</p> <p>F.W3., F.W10., F.W18., F.W21., C.U12., C.U13.</p> <p>F.W3., F.W10., F.W14., F.W21., C.U11., C.U12., C.U13, F.U6.</p> <p>F.W1., F.W2., F.W3., F.W12., C.U11., C.U12., F.U6.</p>
<p>Practical classes (118 hours)</p>	<p>Practical classes take place once a week, they last 4 hours. The subject of practical class cycle is prosthetic rehabilitation of patients (in simple clinical cases) using various types of prosthetic restorations, depending on indications, general health and age of the patient. Optimal selection of prosthetic restorations in specific conditions with permanent and / or removable restorations. Contents: examination of the patient, analysis of the morphological and functional state of the masticatory organ and additional tests, presentation and discussion of possible treatment plans, determination of the optimal treatment plan taking into account the indications and contraindications for the use of individual prosthetic restorations, clinical and laboratory procedures in the implementation of prostheses, cooperation in a therapeutic team, follow-up care.</p>	<p>A.W2., 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.W14., E.U11., F.W1., F.W2., F.W3., F.W12., F.W14., F.W19., F.W20., F.W21., F.W22., F.U1., F.U2., F.U3., F.U6., F.U7., F.U9., F.U10., F.U11., F.U16., F.U22., D.W14., G.W19., G.W27</p>

7. LITERATURE

Obligatory

1. I. Hayakawa: Principles and Practices of Complete Dentures. Quintessence Publ. Co Ltd 2001.
2. H.T. Shillingburg: Fundamentals of Fixed 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. Churvhill Livingstone 2003

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.W1, G.U1, K1	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	e.g. threshold number of points
A.W2., 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.W10., F.W11., F.W12., F.W13., F.W14., F.W18., F.W19., F.W20., F.U1., F.U2., F.U3., F.U6., F.U7., F.U11., F.U16., F.U22., D.W14., G.W19., G.W27.	Interactive participation in lectures and seminars. Initiating discussions and will to solve problems. Colloquiums from all departments of prosthetic dentistry. Active participation in seminars and lectures. The final grade for the fourth year includes three components: 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 The grade is the average from points 1,2,3.	Assessment criteria: points 1,2,3. Written tests: 2.0 (failed) <60% 3.0 (satisfactory) 60-65% 3.5 (rather good) 66-70% 4.0 (good) 71-75% 4.5 (more than good) 76-80% 5.0 (very good) > 80% Oral tests and points 2,3: 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. 4.5- meets the above criteria to an over good degree 4.0 - meets the above criteria to a good degree 3.5- meets the above criteria to a fairly good degree 3.0- meets the above criteria sufficiently 2.0- insufficient knowledge of the learning outcomes, does not meet the above criteria
A.W2., B.W8., B.U1., B.U2., C.W23., C.W25., C.W28., C.U4., C.U5., C.U11., C.U12., C.U13., E.U11., F.W1., F.W2., F.W3., F.W12., F.W14., F.W18., F.W21., F.U1., F.U2., F.U3., F.U6., F.U7., F.U9., F.U10., F.U11., F.U16., F.U22.	Assessment of student active participation by his teacher in terms of the appropriate preformation of therapeutic procedures, theoretical knowledge, attitude towards the patient and the teacher.	

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)*

The subject of the seminars is variable, depending on the availability of patients. Examples of topics for seminars to be selected by teacher are given.

All absences should be made up in the form agreed with teacher conducting the exercises.

Please avoid using mobile phones during classes and ensure that you wear appropriate clothes and ID.

The person responsible for teaching in the fourth year is dr Krzysztof Majchrzak, DDS, PhD.

The final grade for the diploma examination after year 5 is the grade average of:

- exercises for the fourth and fifth year (20%),

- practical exam (30%)
- test examination (50%).

Students scientific association , trustee Marcin Szerszeń, DDS; Kamila Wróbel- Bednarz DDS, PhD

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