

UNIWERSYTET MEDYCZNY IM. Piastów Śląskich we Wrocławiu

Department of Prosthetic Dentistry

26 Krakowska St., 50-425 Wrocław

Head: Associate professor Dr Edward Kijak DMD, MSc, PhD

Schedule of PRACTICAL CLASSES for III year students of Dentistry English Division 2022/2023, winter semester

Place of classes: Phantom Room no 125, Department of Dental Prosthetics, ul. Krakowska 26, 1st floor

No.	DATE	ΤΟΡΙϹ	Student's work	Demonstration by a technician
1	07.10.2022	 1.A. Organization of the course. Discussion of the Department's rules and regulations, dividing the students into subgroups, discussing the program of exercises and lectures, presentation of the course program and introducing the safety and hygiene instructions and the rules of operating equipment and tools. 1.B. Introduction to fixed prosthetic restorations. Theory: Definition of a prosthetic crown; indications and contraindications, divisions of prosthetic crowns; clinical and laboratory stages of making different crowns; general principles of tooth preparation for different types of crowns; prevention of complications during treatment; methods of securing the living tooth after grinding; 	 Practical activities: Metal and metal veneered crowns- I clinical stage. Materials, tools, stages Preparation (grinding) of tooth 36 or 46 for a cast metal stepped gingival crown. Partial Test 	
2	14.10.2022 21.10.2022	 Cosmetic dental crowns Theory: Types of preparation with steps depending on the type of crown; materials used to make complex cosmetic crowns. Instrumentation; steps in making complex crowns Split (segmented) models Cosmetic crowns- continuation Theory: Materials used for all-ceramic crowns Preparation of the tooth for an all-ceramic crown (steps, tools Materials and impression methods used in constructing crowns Recording of central occlusion with retained support zones 	 <u>Practical activities:</u> Grinding of tooth 25 or 15 for a metal crown faced with porcelain; impression with silicone elastomer An impression of the upper dental arch with alginate mass and casting of a plaster model. Making a protective crown for the pillar of tooth 25 or 15. Partial test. <u>Practical activities:</u> Preparation of tooth 12 or 22 for an all-ceramic crown impression and registration of the central occlusion Impression of the lower dental arch with alginate mass and casting of a plaster model. 	Casting of a composite model

4	28.10.2022	Prosthetics crowns - laboratory stages of	Practical activities:	
1	20.10.2022	making different types of crowns	Embedding models in the	Making the casting
		<u>Theory:</u>	articulator	cone , casting
		• Methods of shaping a wax crown model	Partial test.	funnels and
		(calibrated wax matting, etc.).		embedding in
		Principles of casting used in		covering compound
		prosthodontics - shielding compounds		
		(refractory), casting rings, casting cones		
		and funnels, preparation of the casting		
		mold, methods of melting alloy and		
		casting molds, the mistakes of casting		
		processes		
		Facial arches, articulators		
5	04.11.2022	Temporary prosthetic crowns	Practical activities:	
		<u>Theory:</u>	• Casting the crown of tooth 36	Adjustment of cast
		• Types of temporary crowns; methodology	from metal.	crowns - trimming
		for creating temporary crowns; materials	• Making a temporary crown from	the casting funnel,
		used for temporary crowns (individual	model wax	mechanical
		and fabricated).	• Prosthetic crowns - 1st Thematic	treatments,
		• Cementing of crowns - temporary and	Colloquium.	adjusting and
1		permanent cements used to set		polishing
L		prosthetic crowns		
6	18.11.2022	Prosthetic bridges	Practical activities:	
1		Theory:	• Grinding of teeth 14 and 17 for a	
1		Definition; indications and	bridge 14 vv 17 , based on the	
		contraindications; types of prosthetic	base of stepped crowns: 17 cast	
		bridges; materials used for prosthetic	metal crown, stepped, gingival	
		bridges; types of spans of prosthetic	and 14 cast ceramic veneered	
		bridges, principles of design of prosthetic	crown, stepped, gingival.	
		bridge structures; clinical and laboratory	• Impression of the upper dental	
		stages of prosthetic bridges.	arch with silicone elastomer.	
			• Casting of a folding plaster	
			model.	
			Partial test.	
7				
/	25.11.2022	Prosthetic bridges - modeling	Practical activities:	
′	25.11.2022	Prosthetic bridges - modeling <u>Theory:</u>	Practical activities:Modeling of a metal crown on	
,	25.11.2022			
	25.11.2022	Theory:	Modeling of a metal crown on	
	25.11.2022	<u>Theory:</u>Methods of making prosthetic bridges	Modeling of a metal crown on tooth 17, metal coping for a	
7	25.11.2022	 <u>Theory:</u> Methods of making prosthetic bridges depending on the material used : 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. 	
7	25.11.2022	 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. 	
,	25.11.2022	 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. 	
,	25.11.2022	 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. 	
8	25.11.2022 02.12.2022	 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of combining the veneering material with 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. 	
		 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of combining the veneering material with the metal coping 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. Sub-test. 	
		 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of combining the veneering material with the metal coping Prosthetic bridges - modeling - continuation 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. Sub-test. 	
		 Theory: Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of combining the veneering material with the metal coping Prosthetic bridges - modeling - continuation <u>Theory:</u> 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. Sub-test. <u>Practical activities:</u> Continuation of modeling of 	
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		 <u>Theory:</u> Methods of making prosthetic bridges depending on the material used : homogeneous and composite (covering compounds, principles of casting, materials used for veneering , ways of combining the veneering material with the metal coping Prosthetic bridges - modeling - continuation <u>Theory:</u> Special prosthetic bridges - adhesive, AET - indications and contraindications, materials and methods of creating special bridges. 	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. Sub-test. <u>Practical activities:</u> Continuation of modeling of metal crown on tooth 17, metal coping for crown on tooth 14 and span. Establishing the occlusion. 	
		 Theory: Methods of making prosthetic bridges depending on the material used :	 Modeling of a metal crown on tooth 17, metal coping for a crown on tooth 14 and a pontic. Sub-test. <u>Practical activities:</u> Continuation of modeling of metal crown on tooth 17, metal coping for crown on tooth 14 and span. Establishing the occlusion. Mounting the working casts on the articulator. 	
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1		Principles and ways of securing teeth	produce an individual post and	
		prepared for post	core	
			Partial test.	
10	16.12.2022	Posts and cores- continuation	Practical classes:	
		<u>Theory:</u>	• Preparation of the root of tooth	
		• Impression masses; techniques and types	21 for a standard fiberglass post.	
		of impressions used in making post and	Insertion of the post and	
		core	restoration of the tooth crown	
		Cements and principles of seating	stump with fast-polymerizing	
		individual crown-root inlays	acrylic plastic using a standard	
			mol	
			Crown-root inlays - III Thematic	
			colloquium.	
11	13.01.2023	Settled partial dentures	Practical activities:	
		Theory:	Clinical stages I and II; laboratory	
		• Definition of a partial settled denture;	stage I.	
		indications and contraindications for	Anatomical impressions, casting	
		fabrication; clinical and laboratory steps	of models, making of the	
		for fabrication of settled dentures.	checkbite	
		Impression masses; standard impression traversis dividual impression travers	Partial test	
		trays; individual impression trays		
		Checkbite: definition, construction and range		
12	20.01.2023	range Settled partial dentures - continuation	Practical activities:	
12	20.01.2025	Theory:	Clinical stages III ; II laboratory	
		<u>Incory.</u>		
1		Paralleling- construction application		
		Paralleling- construction, application, principles of paralleling analysis.	stage	
		principles of paralleling analysis.	stageRegistration of occlusion and	
		principles of paralleling analysis.Construction of a denture clamp-	 stage Registration of occlusion and assembly of models 	
		principles of paralleling analysis.	 stage Registration of occlusion and assembly of models 	
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning 	 stage Registration of occlusion and assembly of models Positioning of teeth 	
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) 	 stage Registration of occlusion and assembly of models Positioning of teeth 	
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) 	 stage Registration of occlusion and assembly of models Positioning of teeth 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled 	 stage Registration of occlusion and assembly of models Positioning of teeth 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - tinning and polymerization - errors 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures 	
13	27.01.2023	 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures Partial dentures- IV Thematic 	
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - tinning and polymerization - errors Development of finished prostheses 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures Partial dentures- IV Thematic colloquium. 	
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		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - tinning and polymerization - errors Development of finished prostheses <u>Thermoforming sheets</u> <u>Theory:</u> 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures Partial dentures- IV Thematic colloquium. Practical activities: Casting plaster models and pulling 	thermoformable
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures Theory: Methods of making acrylic partial dentures ; conversion of wax to acrylic - tinning and polymerization - errors Development of finished prostheses Thermoforming sheets Theory: Types and materials used to make 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures Partial dentures- IV Thematic colloquium. Practical activities:	thermoformable sheets on plaster
		 principles of paralleling analysis. Construction of a denture clamp- materials, principles of positioning (retention surface- definition and surface characteristics) Principles of tooth arrangement in settled partial dentures Partial dentures - control of sample dentures <u>Theory:</u> Methods of making acrylic partial dentures ; conversion of wax to acrylic - tinning and polymerization - errors Development of finished prostheses <u>Theory:</u> Types and materials used to make thermoformable plates; principles of 	stage Registration of occlusion and assembly of models Positioning of teeth Partial test Practical activities: Continued positioning of teeth, clasp bending Tinning and polymerization of partial dentures Partial dentures- IV Thematic colloquium. Practical activities: Casting plaster models and pulling 	thermoformable
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Requirements for obtaining the credit:

By decision of the Rector, obtaining the credit for a course may performed by distance education techniques.

1. The credit for passing the theoretical knowledge from classes and lectures with the leading assistant. Oral answer or written test.

2. Reciving a credit for practical skills from the teaching assistant according to the individually performed work on phantoms.

3. Phantom works necessary for obtanining 3rd year credit (annual standard)

• prosthetic crowns:

- Grinding of tooth 36 for crown made of metal stepped and gingival ; making a protective crown for the pillar of tooth 36; taking an impression by using silicone elastomer; taking an impression by using alginate mass; determining and recording occlusion; setting models in an articulator, modeling the crown of 36 tooth from wax, making a stud and casting cone,

• prosthetic bridges:

-preparing of 14 and 17 teeth for bridge fabrication; impression of dental arch with silicone elastomer; casting of foldable plaster model; modeling of crowns and bridge span.

crown and root inlays:

-working of the tooth for the crown-root inlay; modeling of the crown-root inlay with wax using the indirect method; making of a standard fiberglass inlay, reconstruction of the stump of the crown of the tooth with the help of quick-polymerizing material

• clinical and laboratory steps in the performance of complete dentures according to the Wrocław and classic methods:

- making an customized tray; making functional impression for maxilla and mandible, rules for arrangement of artificial teeth according to Gysi and flat-topped teeth according to the Wrocław method

- knowledge of how to use a parallelometer
- principles of designing clamps
- pressing thermoformable sheets on the plaster models

4. All manual works on phantoms and phantom models are made individually, one of each.

Obligatory literature:

1. S.F. Rosenstiel, M.F. Land & J.Fujimoto: Contemporary Fixed Prosthodontics, Mosby, 2003

2. B.G.N. Smith, L.C.Howe: Planning and Making Crowns and Bridges, Informa Healthcare, 2007

Recommended literature:

1. H.T.Shillingburg, S.Hobbo & LD Whitsett: Fundamentals of Fixed Prosthodontics, Quintessence Publishing 1997

2. Journal: Dental and Medical Problems.

Schedule of LECTURES of Prosthetics Dentistry for III year Students of Dentistry English Division 2022/2023- winter semester

LECTURES WILL BE PERFORMED USING DISTANCE LEARNING METHODS AND TECHNIQUES DATE: THURSDAY 12.15- 13.15

Data	Торіс	Teacher
27.10.2022	Basic and auxiliary materials used in prosthetic dentistry.	Piotr Napadłek, DMD,
		MSc, PhD
03.11.2022	General principles of designing dental restorations.	Piotr Napadłek, DMD,
		MSc, PhD
10.11.2022	Crown-root inlays. Indications and contraindications of the execution	Piotr Napadłek, DMD,
	methods	MSc, PhD
17.11.2022	Prosthetic crowns. Indications, contraindications and division of	Piotr Napadłek, DMD,
	crowns	MSc, PhD
24.11.2022	Prosthetic crowns. Clinical and laboratory implementation	Piotr Napadłek, DMD,
		MSc, PhD
01.12.2022	Prosthetic bridges. Indications, contraindications, principles of	Piotr Napadłek, DMD,
	designing	MSc, PhD
08.12.2022	Removable partial dentures.	Piotr Napadłek, DMD,
		MSc, PhD
15.12.2022	Non-settling partial dentures - skeletal dentures. Construction of the	Piotr Napadłek, DMD,
	denture, parallelometer analysis.	MSc, PhD