



Odontotechnology and Prosthodontics

Preclinical Course III. - Final exam

Semmelweis University,
Department of Prosthodontics

General dental knowledge and dental materials

1. Zinc-oxide-eugenol impression paste. Duplicating materials.
2. Shaping of metals. The mouth-tolerance of metals. Chemical and electrochemical corrosion.
3. Structure of metals. Melting, crystallization, and alloying.
4. Metals used in dentistry. Precious metals.
5. Dental acrylates. Pouring acrylates, acrylates processed by injection moulding. Acrylate false teeth.
6. Dental cements.
7. The dental gypsum. Types of dental gypsum.
8. Types of dental ceramics. Silicate ceramics.
9. The principles of processing dental polymers.
10. Types of prosthetic appliances.
11. Impression trays.
12. Types of impressions, classification.
13. Anatomy of the permanent teeth, occlusal morphology.
14. Basic definitions of plastic chemistry. Properties of dental acrylates.
15. Not precious metals. Dental alloys.
16. The stainless dental steel. Methods of producing metal prostheses.
17. Elastomeric impression materials. Alginates and agar-agar based hydrocolloidal impression materials.
18. Silicone, Polysulfide, and polyether impression materials.
19. Acrylate as crown and bridge material. Acrylate polymerized on heat or on heat and pressurization without investing.
20. Mandibular positions, movements, plains.
21. Articulators, face-bows. Mounting casts.
22. Gold, platinum, and the platinum group of metals. Silver.
23. The silver alloys, silver-palladium alloys.
24. Investment materials. The technique of expansive investing.
25. Types of dental ceramics. Oxide ceramics.
26. Fabricating specially accurate casts, casting plastics and super hard gypsum. The metal coating.
27. Dental waxes. Impression compound, oroplastic impression materials.



Odontotechnology and Prosthodontics

Preclinical Course III. - Final exam

**Semmelweis University,
Department of Prosthodontics**

Partial dentures

1. Uniting the parts of metal prostheses. Heat treatment of metals.
2. Precision attachments.
3. Definition of dowel-core restorations, types, indication, conditions of construction.
4. Component parts of bridges, roles of the parts, principles of the pontic design.
5. Principles of designing the retainers, pontic and the occlusal surface during wax pattern fabrication of bridges.
6. Principles of crown preparation.
7. Steps of crown preparation for full veneer crowns and bridges.
8. Concept of retention and support of removable partial dentures, devices.
9. Laboratory steps of the metal based removable partial dentures construction.
10. Designing removable partial denture. Purpose, steps, principles.
11. Parts of fixed bridges, function of the parts. Technologies of bridge constructions.
12. Construction of acrylic crowns and bridges, technologies, evaluation.
13. Gold alloys. Platinum-gold alloys, metal-ceramic gold alloys. Gold-silver-palladium alloys.
14. Investing, metal casting, finishing, and polishing of the casts.
15. Metal-ceramic restorations. Material of the metal base, basic rules of the construction.
Technology of the ceramic covering material.
16. Technologies of the full ceramic restoration constructions.
17. Tooth shade selection (shade guides, digital devices).
18. Metal alloys for PFM (porcelain-fused-to-metal) and RPD (removable partial denture) appliances.
19. Clinical steps of dowel-core restoration construction. Preparation, impression, protection of the prepared root, cementation.
20. Temporary fixed restoration construction.
21. Types of implant retained prosthetic appliances.
22. Sequence of the clinical stages and laboratory procedures of the complex removable partial denture construction.
23. Complex removable partial dentures. Technology of the construction.
24. Types of crowns, comparative evaluation.
25. Special restorations (obturator, epithetic).
26. Impression techniques for removable partial dentures.
27. Impression techniques for fixed restorations.
28. Impression taking techniques for implant retained prosthetic appliances.
29. Making casts for fixed and complex removable partial dentures. Material of the casts.
30. Making casts for complete; and partial removable dentures. Material of the casts.
31. Acrylic veneered fixed restorations. Material of the metal base, rules of the construction. Types of the acrylic veneer materials, technologies of the veneer construction.
32. Sequence of the clinical stages and laboratory procedures of the removable partial denture construction.
33. Types of removable partial dentures, component parts and the function of the parts.
34. Try-in procedure, cementation, and removing of fixed restorations.
35. Finishing line preparation types for crowns. Evaluation, design.
36. Wax pattern fabrication of bridges. Fabrication of casted metal crowns.



Odontotechnology and Prosthodontics

Preclinical Course III. - Final exam

**Semmelweis University,
Department of Prosthodontics**

Complete denture

1. The base plate method and the traditional denture making procedure.
2. Determination of centric relations in edentulous mouth.
3. Basic theories of tooth setup and their evaluation.
4. General principles of selecting anterior teeth and their setup according to Gysi.
5. Functional impression. Purpose, properties, techniques, method of impression taking, materials for complete dentures.
6. Evaluation and try in of the trial denture. Fitting the complete denture.
7. Processing the complete denture. Straight and reverse investing procedures.
8. Parts of the complete dentures. Purpose of the parts, types of artificial teeth.
9. Clinical and laboratory steps of complete denture construction.
10. Primary (preliminary) impression. Purpose, properties, method of impression taking, materials for complete dentures.
11. Adjusting the special tray in edentulous cases.
12. Construction of special tray and occlusal rim. Purpose of application, overview of the used materials.