

Diploma in Dental Technician Course

Syllabus for

Dental Mechanics

1. Introduction
2. Anatomical Land marks
3. Impression trays and Types
4. Primary Impression
5. Final Impression
6. Casting of Impressions
7. Occlusal Rims
8. Jaw Relations
9. Articulators
10. Selection of Teeth
11. Occlusion
12. Teeth Setting
13. Flasking, Dewaxing and Packing
14. Curing, Deflasking, Trimming & Polishing
15. Immediate and Over Dentures
16. Denture Relining and Rebasing
17. Denture Repair
18. Partial Dentures – Introduction
19. Components of Removable Partial entures
20. Surveyor
21. Principles of Denture Design
22. Wire Bending
23. Introduction to Fixed Prosthodontics
24. Steps in Casting
25. Cast Duplication and Die Preparation
26. Wax Patterns
27. Pontics
28. Investing
29. Burnout
30. Casting
31. Devesting and Polishing
32. Dental Porcelain
33. Occlusion and Mal Occlusion
34. Tooth movement in Orthodontics
35. Anchorage
36. Removable appliances
37. Fixed Appliances
38. Wire Bending
39. Clasps
40. Bows
41. Springs
42. Appliance Fabrication
43. Space Maintainers
44. Myofunctional Appliances
45. Habit Breaking Appliances
46. Retainers

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Syllabus for

Dental Materials

1. The Science of Dental Materials – Introduction
2. Gypsum Products
3. Impression Materials
4. Elastic Impression Materials
5. Denture Base Materials
6. Dental Cements
7. Direct Filling Gold
8. Amalgam
9. Alloys Used in Dentistry
10. Tarnish and Corrosion
11. Dental Waxes
12. Dental Casting Investing Materials
13. Model Cast and Die Materials
14. Dental Ceramics
15. Soldering, Welding and Brazing
16. Abrasing and Polishing Agents
17. Introduction to Metallurgy
18. Metals used in Dentistry
19. Alloys
20. Noble Metal Alloys
21. Base Metal Alloys
22. Tarnish and Corrosion
23. Soldering and Welding
24. Electroforming of Die

Basic Knowledge of Computers and Medical Records Management

General office routine economics, record keeping services, Professional referrals and computing skill

Record keeping of materials indented and audit of use

Receipt and dispatch of work from clinicians

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Syllabus for Applied Physics, Applied Mechanics, Applied Chemistry & Dental Anatomy

Applied Physics

Specific Gravity, Density, Properties of matter including cohesion, capillarity, surface tension viscosity, elasticity, Diffusion osmosis

Heat: Temperature and its measurements thermometers and pyrometers. General Account of expansion by heat of solids, liquids and gases, thermostats, pressure gas and hydraulic. Boyles and Charles laws. Unit of heat, thermal capacity and specific heat, change of state, latent heat, melting point. Properties of vapors, conduction, convection and radiation.

Principles of electro-technology applied to dental work room, small motors, constructional features and characteristics, electric furnaces, heaters thermostats, pyrometers, spot welders, electroplating, electro forming, and anodizing. Wiring regulations relating to low voltage supplies.

Applied Mechanics

Forces, Parallelogram and triangle of forces, movements, couples, Center of Gravity, Principles of lever and cantilever work, energy, power, friction, inclined plane, screw stress, strain, shearing strain, Torsion, Bending movements, Strength and stiffness of materials.

Applied Chemistry

.Distinction between physical and chemical change, elements, mixtures and compounds. Composition of the atmosphere, oxygen oxides, burning and rusting, water solvent properties and crystallization, action of water on metals, composition of water hydrogen, laws of chemical combination, meaning of chemical symbols valency, simple chemical equations, acids, bases and salts

Electrolysis, the ionic theory of solution. The electro potential series, electroplating, general characteristics of the metals including an elementary study of the common metals and their alloys with special reference to those used in the dental work room.

Alcohol, ethers, aldehydes, and ketones, fatty acids and their more important derivatives, amines. Simple treatment of carbohydrates, fats and proteins, Benzene and its homologues. General characteristics of aromatic substances. Synthetic resins and plastics used in dentistry.

Dental Anatomy

1. Introduction and Terminology
2. Dental Formula
3. Chronology
4. Basic Anatomy of Oral Cavity
5. Parts of teeth
6. Maxillary Incisors
7. Mandibular Incisors
8. Canines
9. Maxillary Premolars
10. Mandibular Premolars
11. Maxillary Molars
12. Mandibular Molars
13. Nerve Supply and Blood Supply of Teeth
14. Jaw Bones and Temporomandibular joint
15. Muscles of Mastication and Facial Expression

Examination Pattern

Paper-1-----Theory

Subject	Marks	Internal Marks	Total Marks
Dental Mechanics	80	20	100

Paper-2-----Theory

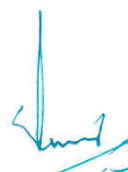
Subject	Marks	Internal Marks	Total Marks
Dental Material & Basic Knowledge of Computer	80	20	100

Paper-3-----Theory

Subject	Marks	Internal Marks	Total Marks
Oral Anatomy & Applied Physics & Chemistry	80	20	100

Practicals (Only One)

Subject	Practicals (Two Experiments)	Viva	Spotters	Total Marks
Dental Mechanics, Dental Material, etc.	30	20	10	60



SECRETARY,
A P Para Medical Board