**DEPARTMENT OF PROSTHODONICS, IDS, BAREILLY UP**

**MDS First Year Batch: 2020**

**Seminars Related To Applied Basic Sciences And Dental Materials**

1. Dental anatomy and histology of mucous membrane, enamel, dentin, cementum, periodontal ligament, alveolar bone and pulpal tissue.
2. Saliva and salivary glands and role of saliva in complete dentures.
3. Development of tongue, salivary glands and associated dental structures.
4. Cleft lip, palate and Maxillary sinus.
5. Applied deglutition, digestion, homeostasis.
6. General principals of endocrine activity and its disorders related to thyroids, parathyroid and pancreas
7. Applied mandibular physiology, Muscle of mastications and mandibular movements
8. Concept of neuromuscular mechanism and its relation to prosthodontics in relation to trigeminal nerves.
9. Psychological aspect in management of complete dentures.
10. Concept of occlusion and its development
11. Anatomy and physiology of temporo-mandibular joints, TMJ disorders, examination and their management.
12. Research and its methodology, central tendency, and Uses of biostatics
13. Role of electromyography, airotor, micro motor, Physio-dyspensor and lasers in diagnosis and treatment planning in prosthodontics..
14. Sterilization, gamma radiation, UV chamber and infection control.
15. Nutrition, vitamins, Enzymes, metabolism of carbohydrate, protein and fat
16. Calcium and phosphate metabolism
17. Pharmacokinetics and pharmaco-therapeutics of antibiotics And NSAIDS
18. Applied pathology of oral manifestation of systemic disease, nutritional disease, medical emergencies and their management.
19. RNA & DNA along with Genetics counseling and HIV and AIDS
20. Fabrication of histopathology slides and discuss histopathology of prosthetics related diseases.
21. D/D of red & white lesions and their treatment.
22. Amendment dentist act 1948 and its relevance.
23. Conscious sedations, Causes of bleeding & metastasis
24. Role of roentgenogoraphy in prosthodontics and Radiation free imaging, RVG, dental scan, CT scan and MRI scan
25. Stem cells, Nanotechnology, Pro-typing and DNA probe, Blood and urine investigations

SEMINARS RELATED TO DENTAL MATERIALS

1. Biocompatibility, Physical & Mechanical properties of dental materials including Corrosion and tarnish.
2. Gypsum products.
3. Impression materials: Inelastic, Hydrocolloid and elastic
4. Core materials and Fiber reinforced composite
5. Dental cements as luting agents.
6. Dental waxes & Investment materials for dental alloys in Prosthodontics
7. Dental casting alloys and Casting procedures for dental alloys.
8. Implant materials.
9. Polymers : denture base, flexible denture and restorative
10. Dental ceramics.
11. Finishing and polishing materials.
12. Science of dental materials in maxillofacial prosthetics.
13. Recent maxillofacial material

SEMINARS RELATED TO COMPLETE DENTURES

MDS Second Year Batch : 2020

1. Bio-mechanics of edentulous state, tissue response to CD and anatomical land marks.
2. Diagnosis and treatment planning for edentulous and nearly edentulous patients. Improving the health of patients denture bearing tissues and ridge relations.
3. Retention, stability and support
4. Impression philosophies and their Biologic consideration for maxillary and mandibular impression.
5. Posterior palatal seal
6. Biological consideration in vertical jaw relations and recording methods.
7. Biological consideration in horizontal jaw relations and recording methods.
8. Orientation jaw relations and face bow. Also discuss the theory and concept of articulators and patient relating to articulators
9. Selection of artificial teeth, posterior arrangement and occlusion for CD.
10. Try in, Anterior Creating functional and facial harmony.
11. Processing of complete dentures, Remounting and correction of errors in occlusion. Also discuss the Insertion of dentures along with post insertion problem.
12. Esthetics and Speech in complete dentures.
13. Immediate and Over denture.
14. Relining, rebasing and Single denture against complete denture
15. Management of severely resorbed ridges.

SEMINARS RELATED TO REMOVABLE PARTIAL DENTURES

1. Introduction and classification of R.P.D.
2. Diagnosis and treatment planning and Mouth preparation for master cast.
3. Components of R.P.D, Wrought wire clasp and Principle of R.P.D.
4. Surveying and designing of R.P.D.
5. Impression procedures for R.P.D, Care of impression and making of cast.
6. Design transfer, tripoding, block out, relief and beading.
7. Duplication refractory cast, Investing, burnout and casting procedures.
8. Establishment of occlusal relations, Acrylization, finishing and polishing of framework. Also discuss the Try in, insertion and post insertion of RPD.
9. Temporary, immediate, Complete denture opposing R.P.D and precision attachments.

SEMINARS RELATED TO FIXED PARTIAL DENTURE

MDS 3rd year Batch: 2020

1. Periodontal consideration, biological width, ant’s law & Japsun rule’s in FPD Case selection for FPD (diagnosis and treatment planning).
2. Enumeration of principals of tooth preparations. Also discuss the preparation of anterior, posterior teeth, proximal grooves and boxes in FPD.
3. Prostho and Perio interrelationship.
4. Soft tissue management, fluid control and Impressions.
5. Provisional restoration, Cast and dies.
6. Science of colour and shade selections
7. Retainers, pontic, connectors in FPD.
8. Wax pattern, investing, casting, Soldering and Cementation.
9. Ceramo – metal restoration and All ceramic restoration.
10. Failures and their remedies in crown and bridge treatment.
11. Laminates and veneers.
12. Management of endodontically treated teeth.
13. Full mouth rehabilitation.

SEMINARS LIST RELATED TO DENTAL IMPLANT

1. Rationale of dental implant, osteo-integration, Blood investigation and radiological interpretation. Also, discuss the Diagnosis and treatment planning in dental implantology.
2. Types of implants, abutments and other accessory parts
3. PRF, graft materials, Surgical splints & techniques Science for implant placement and soft tissue consideration
4. Impression in implants (Single & multiple tooth implants), Loading in implants, implant supported over denture and Occlusion in implants.
5. Maintenance and Failure in implants.

MAXILLOFACIAL PROSTHESIS

1. Diagnosis and treatment planning in maxillofacial prosthetics.
2. Management of facial defects.
3. Osseointegrated maxillofacial prosthesis.

OTHER RELATED TOPICS

1. Esthetics in prosthodontics.
2. Management of geriatric patients.
3. Preventive prosthodontics
4. Recent advances in prosthodontics.

**HOD, Prosthodontics, IDS, Bareilly**