Seminar topics

**Applied Basic Sciences**

1. Oral mucosa in health
2. Development of teeth and its developmental disturbances
3. Biopsy
4. Inflammation
5. Carcinogenesis
6. Hemostasis
7. Analgesics in dentistry
8. Corticosteroids in dentistry
9. Antibiotics in dentistry
10. Development of face and its applied aspects
11. Common drug interactions in dentistry
12. Calcium metabolism and its role in oral cavity
13. Facial nerve and its applied aspects
14. Nerve supply of head and neck
15. Blood supply of head and neck
16. Lymphatic drainage of head and neck
17. Lab investigations in dentistry
18. Antioxidants and its role in oral diseases
19. Role of nutrition in oral health
20. Sterilization and disinfection in dentistry
21. Pain pathway & physiology of pain
22. Shock
23. Muscles of mastication
24. Hospital waste management
25. Oral microbial flora
26. Basics in interpretation of ECG
27. Drugs used in emergency
28. Basics of Biostatistics
29. Basics of Genetics
30. Basics of Immunology
31. Basics of molecular biology

**Oral Medicine and Diagnosis**

1. Case history and examination
2. Oral manifestations of systemic disorders
3. Salivary gland disorders
4. Oral pigmentation
5. Red lesions
6. White lesions
7. Oral ulcers
8. Vesiculo bullous lesions
9. Discolored teeth
10. Oral genodermatosis
11. Effect of age in oral mucosa
12. Granulomatous diseases
13. Cervical lymphadenopathy and D/D of swellings of the neck
14. D/D of the lesions of the lip
15. D/D of the lesions of the palate
16. D/D of the swellings of the floor of the mouth
17. Facial pain
18. TMJ disorders
19. Tongue in health and disease
20. Oral cancer
21. HIV infection and AIDS
22. Saliva in health and disease
23. Benign oral soft tissue masses
24. Oral cancer
25. Oral Hamartomas
26. Diseases of the bone
27. Causes of bleeding from the oral cavity and its dental considerations
28. Potentially malignant disorders
29. Infections of the oral cavity (bacterial, viral, fungal and nonspecific)
30. Neuromuscular disorders affecting the orofacial region
31. Dental considerations in patients with systemic disorders
32. Dermatologic diseases with oral manifestations
33. Psycosomatic disorders
34. Early detection of oral cancer and precancerous lesions
35. Forensic odontology
36. Management of medical emergency in dental clinic
37. Computers in oral diagnosis and imaging

Oral and Maxillofacial Radiology

1. History of Radiology
2. Structure of x ray tube and production of x rays
3. Factors controlling the quality and quality of radiograph
4. Biologic effects of radiation
5. Films and other Image receptors
6. Processing of image in radiology
7. Design of x ray room and dark room
8. Radiation protection
9. Faulty radiographs
10. Ideal radiographs
11. Infection control in dental radiology
12. Quality assurance in dental radiology
13. Intra oral radiographic techniques
14. Extra oral radiography
15. Panoramic radiology
16. Principles of radiographic interpretation
17. Localization techniques
18. Contrast agents and contrast radiology
19. Periosteal reactions
20. Osteodystrophies of the jaws
21. Radiographic interpretation of benign tumors of the jaws
22. Radiographic interpretation of malignant tumors of the jaws
23. Radiographic interpretation of infection and inflammatory diseases of the jaw
24. Radiology of TMJ
25. Imaging of salivary gland
26. Radiographic features of systemic and skeletal disorders affecting the jaw
27. Radiographic interpretation of trauma to the head and neck
28. Radiographic appearances of the diseases of maxillary sinus
29. Radiographic appearance of cysts of the jaw
30. Soft tissue calcification and their radiographic appearances
31. Radioluencies of the jaws and multilocular radioluencies
32. Radioopacities of jaws and mixed radiolucent and radioopaque lesions of jaws
33. Age estimation by dental records
34. Radiotherapy in oral cancer
35. Digital radiography principle, application in oral and maxillofacial diagnosis
36. MRI physics, application in oral and maxillofacial diagnosis
37. CT physics, application in oral and maxillofacial diagnosis
38. Ultra sound, thermography, principles, application in oral and maxillofacial diagnosis
39. Radio nucleotide imaging , principles, application in oral and maxillofacial diagnosis
40. CBCT -principles, application in oral and maxillofacial diagnosis
41. Implant radiology