

MALWANCHAL UNIVERSITY, INDORE (M.P.)

Syllabus

Subject: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Adapted from
BDS Course Regulations 2007 (Modified:25.07.2007)
by Dental council of India

Teaching Hours:

Lecture Hours	Practical Hours	Total Teaching Hours
105	250	355

INTRODUCTION

Dental Anatomy including Embryology and Oral Histology – a composite of basic Dental Sciences & their clinical applications.

SKILLS

The student should acquire basic skills in :

1. Carving of crowns of permanent teeth in wax.
2. Microscopic study of Oral tissues.
3. Identification of Deciduous & Permanent teeth.
4. Age estimation by patterns of teeth eruption from plaster casts of different age groups.

OBJECTIVES

After a course on Dental Anatomy including Embryology and Oral Histology,

1. The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological / non-pathological states.
2. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
3. The students must know the basic knowledge of various research methodologies.

I. TOOTH MORPHOLOGY

1. Introduction to tooth morphology:
 - Human dentition, types of teeth, & functions, Palmer's & Binomial notation systems, tooth surfaces, their junctions - line angles & point angles, definition of terms used in dental morphology, geometric concepts in tooth morphology, contact areas & embrasures - Clinical significance.

2. Morphology of permanent teeth :

- Description of individual teeth, along with their endodontic anatomy & including a note on their chronology of development, differences between similar class of teeth & identification of individual teeth.
- Variations & Anomalies commonly seen in individual teeth.

3. Morphology of Deciduous teeth :

- Generalized differences between Deciduous & Permanent teeth.
- Description of individual deciduous teeth, including their chronology of development, endodontic anatomy, differences between similar class of teeth & identification of individual teeth.

4. Occlusion :

- Definition, factors influencing occlusion - basal bone, arch, individual teeth, external & internal forces & sequence of eruption.
- Inclination of individual teeth - compensatory curves.
- Centric relation & Centric occlusion - protrusive, retrusive & lateral occlusion.
- Clinical significance of normal occlusion.
- Introduction to & Classification of Malocclusion.

5. Pulp Chambers and Canals

II. ORAL EMBRYOLOGY

1. Brief review of development of face, jaws, lip, palate & tongue, with applied aspects.

2. Development of teeth :

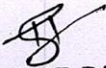
- Epithelial mesenchymal interaction, detailed study of different stages of development of crown, root & supporting tissues of tooth & detailed study of formation of calcified tissues.
- Applied aspects of disorders in development of teeth.

3. Eruption of deciduous & Permanent teeth :


- Mechanisms in tooth eruption, different theories & histology of eruption, formation of dentogingival junction, role of gubernacular cord in eruption of permanent teeth.
- Clinical or Applied aspects of disorders of eruption.

4. Shedding of teeth :

- Factors & mechanisms of shedding of deciduous teeth.
- Complications of shedding.


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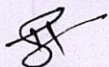

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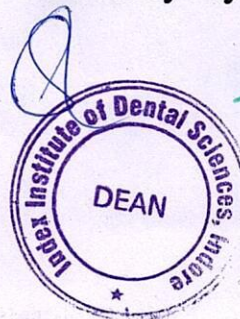
III. ORAL HISTOLOGY

1. Detailed microscopic study of Enamel, Dentine, Cementum & Pulp tissue. Age changes & Applied aspects (Clinical and forensic significance) of histological considerations - Fluoride applications, transparent dentine, dentine hypersensitivity, reaction of pulp tissue to varying insults to exposed dentine ; Pulp calcifications & Hypercementosis.
2. Detailed microscopic study of Periodontal ligament & alveolar bone, age changes, histological changes in periodontal ligament & bone in normal & orthodontic tooth movement, applied aspects of alveolar bone resorption.
3. Detailed microscopic study of Oral Mucosa, variation in structure in relation to functional requirements, mechanisms of keratinization, clinical parts of gingiva, Dentogingival & Mucocutaneous junctions & lingual papillae. Age changes & clinical considerations.
4. Salivary Glands :
 - Detailed microscopic study of acini & ductal system.
 - Age changes & clinical considerations.
5. TM Joint :
 - Review of basic anatomical aspects & microscopic study & clinical considerations.
6. Maxillary Sinus :
 - Microscopic study, anatomical variations, functions & clinical relevance of maxillary sinus in dental practice.
7. Processing of Hard & soft tissues for microscopic study :
 - Ground sections, decalcified sections & routine staining procedures.
8. Basic histochemical staining patterns of oral tissues.

IV. ORAL PHYSIOLOGY

1. Saliva :
 - Composition of saliva - variations, formation of saliva & mechanisms of secretion, salivary reflexes, brief review of secretomotor pathway, functions, role of saliva in dental caries & applied aspects of hyper & hypo salivation.
2. Mastication :
 - Masticatory force & its measurement - need for mastication, peculiarities of masticatory muscles, masticatory cycle, masticatory reflexes & neural control of mastication.


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Page 3 of 4

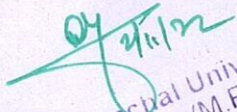
3. Deglutition :
 - Review of the steps in deglutition, swallowing in infants, neural control of deglutition & dysphagia.
4. Calcium, Phosphorous & fluoride metabolism :
 - Source, requirements, absorption, distribution, functions & excretion, clinical considerations, hypo & hypercalcemia & hyper & hypo phosphatemia & fluorosis.
5. Theories of Mineralization :
 - Definition, mechanisms, theories & their drawbacks.
 - Applied aspects of physiology of mineralization, pathological considerations - calculus formation.
6. Physiology of Taste :
 - Innervation of taste buds & taste pathway, physiologic basis of taste sensation, age changes & applied aspects - taste disorders.
7. Physiology of Speech :
 - Review of basic anatomy of larynx & vocal cords.
 - Voice production, resonators, production of vowels & different consonants - Role of palate, teeth & tongue.
 - Effects of dental prosthesis & appliances on speech & basic speech disorders.

RECOMMENDED TEXT BOOKS

1. Orban's Oral Histology & Embryology - S.N.Bhaskar
2. Oral Development & Histology - James & Avery
3. Wheeler's Dental Anatomy, Physiology & Occlusion - Major.M.Ash
4. Dental Anatomy - its relevance to dentistry - Woelfel & Scheid
5. Applied Physiology of the mouth - Lavelle
6. Physiology & Biochemistry of the mouth - Jenkins


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Page 4 of 4

MALWANCHAL UNIVERSITY, INDORE (M.P.)

Syllabus

Subject: ORAL PATHOLOGY & ORAL MICROBIOLOGY

Adapted from

BDS Course Regulations 2007 (Modified: 25.07.2007)

By Dental Council of India

Teaching Hours:

Lecture Hours	Practical Hours	Total Teaching Hours
145	130	275

OBJECTIVES:

At the end of Oral Pathology & Oral Microbiology course, the student should be able to comprehend -

1. The different types of pathological processes, that involve the oral cavity.
2. The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
3. An understanding of the oral manifestations of systemic diseases should help in correlating with the systemic physical signs & laboratory findings.
4. The student should understand the underlying biological principles governing treatment of oral diseases.
5. The principles of certain basic aspects of Forensic Odontology.

SKILLS:

- i) Microscopic study of common lesions affecting oral tissues through microscopic slides & projection slides.
- ii) Study of the disease process by surgical specimens.
- iii) Study of teeth anomalies/polymorphisms through tooth specimens & plaster casts.
- iv) Microscopic study of plaque pathogens.
- v) Study of haematological preparations (blood films) of anaemias & leukemias.
- vi) Basic exercises in Forensic Odontology such as histological methods of age estimation and appearance of teeth in injuries.

1. Introduction:

- A bird's eye view of the different pathological processes involving the oral cavity & oral cavity involvement in systemic diseases to be brought

out. Interrelationship between General Medicine & General Surgery & Oral pathology to be emphasized.

2. Developmental disturbances of teeth, jaws and soft tissues of oral & paraoral region :

Introduction to developmental disturbances - Hereditary, Familial mutation, Hormonal etc. causes to be highlighted.

Developmental disturbances of teeth - Etiopathogenesis, clinical features, radiological features & histopathological features as appropriate :-

The size, shape, number, structure & eruption of teeth & clinical significance of the anomalies to be emphasized.

Forensic Odontology.

Developmental disturbances of jaws - size & shape of the jaws.

Developmental disturbances of oral & paraoral soft tissues - lip & palate - clefts, tongue, gingiva, mouth, salivary glands & face.

3. Dental Caries :

Etiopathogenesis, microbiology, clinical features, diagnosis, histopathology, immunology, prevention of dental caries & its sequelae.

4. Pulp & Periapical Pathology & Osteomyelitis.

Etiopathogenesis & interrelationship, clinical features, microbiology, histopathology & radiological features (as appropriate) of pulp & periapical lesions & osteomyelitis.

Sequelae of periapical abscess - summary of space infections, systemic complications & significance.

5. Periodontal Diseases :

Etiopathogenesis, microbiology, clinical features, histopathology & radiological features (as appropriate) of gingivitis, gingival enlargements & periodontitis. Basic immunological mechanisms of periodontal disease to be highlighted.


6. Microbial infections of oral soft tissues :

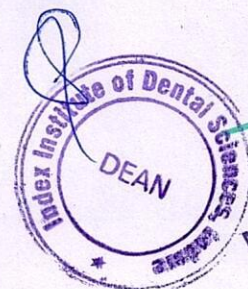
Microbiology, defence mechanisms including immunological aspects, oral manifestations, histopathology and laboratory diagnosis of common bacterial, viral & fungal infections namely :- Bacterial : Tuberculosis, Syphilis, ANUG & its complications - Cancrum Oris.

Viral : Herpes Simplex, Varicella zoster, Measles, Mumps & HIV infection.

Fungal : Candidal infection. Aphthous Ulcers.

7. Common non-inflammatory diseases involving the jaws :


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Page 2 of 5
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□ Etiopathogenesis, clinical features, radiological & laboratory values in diagnosis of :

Fibrous dysplasia, Cherubism, Osteogenesis Imperfecta, Paget's disease, Cleidocranial dysplasia, Rickets, Achondroplasia, Marfan's syndrome & Down's syndrome.

8. Diseases of TM Joint :

□ Ankylosis, summary of different types of arthritis & other developmental malformations, traumatic injuries & myofascial pain dysfunction syndrome.

9. Cysts of the Oral & Paraoral region :

□ Classification, etiopathogenesis, clinical features, histopathology, laboratory & radiological features (as appropriate) of Odontogenic cysts, Non-Odontogenic cysts, Pseudocysts of jaws & soft tissue cysts of oral & paraoral region.

10. Tumours of the Oral Cavity :

□ Classification of Odontogenic, Non-Odontogenic & Salivary Gland Tumours. Etiopathogenesis, clinical features, histopathology, radiological features & laboratory diagnosis (as appropriate) of the following common tumours :-

a) Odontogenic - all lesions. b) Non-odontogenic

- Benign Epithelial - Papilloma, Keratoacanthoma & Naevi.

- Benign Mesenchymal - Fibroma, Aggressive fibrous lesions, Lipoma, Haemangioma, Lymphangioma, Neurofibroma, Schwannoma, Chondroma, Osteoma & Tori.

- Malignant Epithelial - Basal Cell Carcinoma, Verrucous Carcinoma, Squamous Cell carcinoma & Malignant Melanoma.

- Malignant Mesenchymal - Fibrosarcoma, Osteosarcoma, Giant cell tumour, Chondrosarcoma, Angiosarcoma, Kaposi's sarcoma, Lymphomas, Ewing's sarcoma & Other Reticuloendothelial tumours.

c) Salivary Gland

- Benign Epithelial neoplasms - Pleomorphic Adenoma, Warthin's tumour & Oncocytoma.

- Malignant Epithelial neoplasms - Adenoid Cystic Carcinoma, Mucoepidermoid Carcinoma,

Acinic Cell Carcinoma & Adenocarcinomas.

d) Tumours of Disputed Origin - Congenital Epulis & Granular Cell Myoblastoma. e) Metastatic tumours - Tumors metastasizing to & from oral cavity & the routes of metastasis.

11. Traumatic, Reactive & Regressive lesions of Oral Cavity :

- Pyogenic & Giant cell granuloma, exostoses Fibrous Hyperplasia, Traumatic Ulcer & Traumatic Neuroma.
- Attrition, Abrasion, Erosion, Bruxism, Hypercementosis, Dentinal changes, Pulp calcifications & Resorption of teeth.
- Radiation effects of oral cavity, summary of Physical & Chemical injuries including allergic reactions of the oral cavity.
- Healing of Oral wounds & complications - Dry socket.

12. Non neoplastic Salivary Gland Diseases :

- Sialolithiasis, Sialosis, Sialadenitis, Xerostomia & Ptyalism.

13. Systemic Diseases involving Oral cavity :

- Brief review & oral manifestations, diagnosis & significance of common Blood, Nutritional, Hormonal & Metabolic diseases of Oral cavity.

14. Mucocutaneous Lesions :

- Etiopathogenesis, clinical features & histopathology of the following common lesions.

Lichen Planus, Lupus Erythematosus, Pemphigus & Pemphigoid lesions, Erythema Multiforme, Psoriasis, Scleroderma, Ectodermal Dysplasia, Epidermolysis bullosa & White sponge nevus..

15. Diseases of the Nerves :

- Facial neuralgias - Trigeminal & Glossopharyngeal. VII nerve paralysis, Causalgia.
- Psychogenic facial pain & Burning mouth syndrome.

16. Pigmentation of Oral & Paraoral region & Discolouration of teeth :

- causes & clinical manifestations.

17. Diseases of Maxillary Sinus :

- Traumatic injuries to sinus, Sinusitis, Cysts & Tumours involving antrum.

18. a) ORAL PRECANCER – CANCER; Epidemiology, aetiology, clinical and histopathological features, TNM classification. Recent advances in diagnosis, management and prevention.

b) Biopsy : Types of biopsy, value of biopsy, cytology, histo chemistry & frozen sections in diagnosis of oral diseases.


19. Principles of Basic Forensic Odontology (Pre-clinical Forensic Odontology):

- Introduction, definition, aims & scope.

- Sex and ethnic (racial) differences in tooth morphology and histological age estimation
- Determination of sex & blood groups from buccal mucosa / saliva.
- Dental DNA methods
- Bite marks, rugae patterns & lip prints.
- Dental importance of poisons and corrosives.
- Overview of forensic medicine and toxicology

RECOMMENDED BOOKS:

- 1) A Text Book of Oral Pathology - Shafer, Hine & Levy.
- 2) Oral Pathology - Clinical Pathologic correlations - Regezi & Sciubba.
- 3) Oral Pathology - Soames & Southam.
- 4) Oral Pathology in the Tropics - Prabhu, Wilson, Johnson & Daftary


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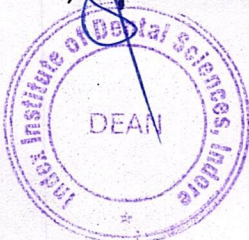
Syllabus for BDS 4th Year - ORTHODONTICS

Adapted from

[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

1. Introduction, Definition, Historical Background, Aims And Objectives Of Orthodontics And Need For Orthodontics Care.
2. Growth And Development: In General
 - a. Definition
 - b. Growth spurts and Differential growth
 - c. Factors influencing growth and Development
 - d. Methods of measuring growth
 - e. Growth theories (Genetic, Sicher's, Scott's, Moss's, Petrovics, Multifactorial)
 - f. Genetic and epigenetic factors in growth
 - g. Cephalocaudal gradient in growth.
3. Morphologic Development Of Craniofacial Structures
 - a. Methods of bone growth
 - b. Prenatal growth of craniofacial structures
 - c. Postnatal growth and development of: cranial base, maxilla, mandible, dental arches and occlusion.
4. Functional Development Of Dental Arches And Occlusion
 - a. Factors influencing functional development of dental arches and occlusion.
 - b. Forces of occlusion
 - c. Wolfe's law of transformation of bone
 - d. Trajectories of forces
5. Clinical Application Of Growth And Development
6. Malocclusion - In General
 - a. Concept of normal occlusion
 - b. Definition of malocclusion
 - c. Description of different types of dental, skeletal and functional malocclusion.
7. Classification of Malocclusion Principle, description, advantages and disadvantages of classification of malocclusion by Angle's, Simon's, Lischer's and Ackerman and Proffit's.
8. Normal And Abnormal Function Of Stomatognathic System
9. Etiology Of Malocclusion
 - a. Definition, importance, classification, local and general etiological factors.
 - b. Etiology of following different types of malocclusion:
 - 1) Midline diastema
 - 2) Spacing
 - 3) Crowding
 - 4) Cross-Bite: Anterior/Posterior
 - 5) Class III Malocclusion

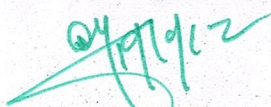


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- 6) Class II Malocclusion
- 7) Deep Bite
- 8) Open bite
- 10. Diagnosis And Diagnostic Aids
 - a. Definition, Importance and classification of diagnostic aids
 - b. Importance of case history and clinical examination in orthodontics
 - c. Study Models: - Importance and uses - Preparation and preservation of study models
 - d. Importance of intraoral X-rays in orthodontics
 - e. Panoramic radiographs: - Principles, Advantages, disadvantages and uses
 - f. Cephalometrics: Its advantages, disadvantages
 - 1. Definition
 - 2. Description and use of cephalostat
 - 3. Description and uses of anatomical landmarks lines and angles used in cephalometric analysis
 - 4. Analysis- Steiner's, Down's, Tweed's, Ricket's-E- line
 - g. Electromyography and its uses in orthodontics
 - h. Wrist X-rays and its importance in orthodontics
- 11. General Principles In Orthodontic Treatment Planning Of Dental And Skeletal Malocclusions
- 12. Anchorage In Orthodontics - Definition, Classification, Types and Stability Of Anchorage
- 13. Biomechanical Principles In Orthodontic Tooth Movement
 - a. Different types of tooth movements
 - b. Tissue response to orthodontic force application
 - c. Age factor in orthodontic tooth movement
- 14. Preventive Orthodontics
 - a. Definition
 - b. Different procedures undertaken in preventive orthodontics and their limitations.
- 15. Interceptive Orthodontics
 - a. Definition
 - b. Different procedures undertaken in interceptive orthodontics
 - c. Serial extractions: Definition, indications, contra-indication, technique, advantages and disadvantages.
 - d. Role of muscle exercises as an interceptive procedure
- 16. Corrective Orthodontics
 - a. Definition, factors to be considered during treatment planning.
 - b. Model analysis: Pont's, Ashley Howe's, Bolton, Careys, Moyer's Mixed Dentition Analysis
 - c. Methods of gaining space in the arch:- Indications, relative merits and demerits of proximal stripping, arch expansion and extractions
 - d. Extractions in Orthodontics - indications and selection of teeth for extraction.
- 17. Orthodontic Appliances: General
 - a. Requisites for orthodontic appliances
 - b. Classification, indications of Removable and Functional Appliances




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- c. Methods of force application
- d. Materials used in construction of various orthodontic appliances - uses of stainless steel, technical considerations in curing of acrylic, Principles of welding and soldering, fluxes and antfluxes.
- e. Preliminary knowledge of acid etching and direct bonding.

REMOVABLE ORTHODONTIC APPLIANCES

- 1) Components of removable appliances
- 2) Different types of clasps and their uses
- 3) Different types of labial bows and their uses
- 4) Different types of springs and their uses
- 5) Expansion appliances in orthodontics:
 - i) Principles
 - ii) Indications for arch expansion
 - iii) Description of expansion appliances and different types of expansion devices and their uses.
 - iv) Rapid maxillary expansion

FIXED ORTHODONTIC APPLIANCES

- 1. Definition, Indications & Contraindications
- 2. Component parts and their uses
- 3. Basic principles of different techniques: Edgewise, Begg's, straight wire.

EXTRAORAL APPLIANCES

- 1. Headgears
- 2. chin cup
- 3. reverse pull headgears

MYOFUNCTIONAL APPLIANCES

- 1. Definition and principles
- 2. Muscle exercises and their uses in orthodontics
- 3. Functional appliances:
 - i) Activator, Oral screens, Frankels function regulator, bionator twin blocks, lip bumper
 - ii) Inclined planes - upper and lower

18. Orthodontic Management Of Cleft Lip And Palate

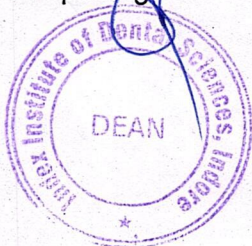
19. Principles Of Surgical Orthodontics.

Brief knowledge of correction of:

- a. Mandibular Prognathism and Retrognathism
- b. Maxillary Prognathism and Retrognathism
- c. Anterior open bite and deep bite
- d. Cross bite

20. Principle, Differential Diagnosis & Methods Of Treatment Of:

- 1. Midline diastema
- 2. Cross bite
- 3. Open bite
- 4. Deep bite
- 5. Spacing



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6. Crowding
7. Class II - Division 1, Division 2
8. Class III Malocclusion - True and Psuedo Class III
21. Retention And Relapse, Definition, Need for retention, Causes of relapse, Methods of retention, Different types of retention devices, Duration of retention, Theories of retention.
22. Ethics & Practice management

**CLINICALS AND PRACTICALS IN ORTHODONTICS
PRACTICAL TRAINING DURING II YEAR B.D.S.**

- I. Basic wire bending exercises Gauge 22 or 0.7mm
 1. Straightening of wires (4 Nos.)
 2. Bending of a equilateral triangle
 3. Bending of a rectangle
 4. Bending of a square
 5. Bending of a circle
 6. Bending of U.V.
- II. Construction of Clasps (Both sides upper/lower) Gauge 22 or 0.7mm
 1. 3/4 Clasp (C-Clasp)
 2. Full Clasp (Jackson's Crib)
 3. Adam's Clasp
 4. Triangular Clasp
- III. Construction of Springs (on upper both sides) Gauge 24 or 0.5mm
 1. Finger Spring
 2. Single Cantelever Spring
 3. Double Cantelever Spring (Z-Spring)
 4. T-Springs on premolars
- IV. Construction of Canine retractors Gauge 23 or 0.6mm
 1. U - Loop canine retractor
(Both sides on upper & lower)
 2. Helical canine retractor
(Both sides on upper & lower)
 3. Buccal canine retractor:
- Self supported buccal canine retractor with
 - a) Sleeve - 5mm wire or 24 gauge
 - b) Sleeve - 19 gauge needle on any one side.
 4. Palatal canine retractor on upper both sides
Gauge 23 or 0.6mm

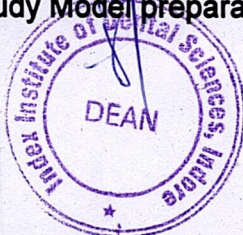
V. Labial Bow

Gauge 22 or 0.7mm

One on both upper and lower

CLINICAL TRAINING DURING III YEAR B.D.S.

01. Making upper Alginate impression
02. Making lower Alginate impression
03. Study Model preparation



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04. Model Analysis

- a. Pont's Analysis
- b. Ashley Howe's Analysis
- c. Carey's Analysis
- d. Bolton's Analysis
- e. Moyer's Mixed Dentition Analysis

CLINICAL TRAINING DURING FINAL YEAR B.D.S.

01. Case History taking
02. Case discussion
03. Discussion on the given topic
04. Cephalometric tracings
 - a. Down's Analysis
 - b. Steiner's Analysis
 - c. Tweed's Analysis

PRACTICAL TRAINING DURING FINAL YEAR B.D.S.

1. Adam's Clasp on Anterior teeth Gauge 0.7mm
2. Modified Adam's Clasp on upper arch Gauge 0.7mm
3. High Labial bow with Apron spring on upper arch
(Gauge of Labial bow - 0.9mm, Apron spring - 0.3mm)
4. Coffin spring on upper arch Gauge 1mm

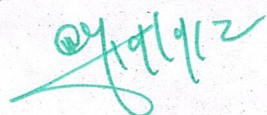
Appliance Construction in Acrylic

1. Upper & Lower Hawley's Appliance
2. Upper Hawley's with Anterior bite plane.
3. Upper Habit breaking Appliance
4. Upper Hawley's with Posterior bite plane with 'Z' Spring
5. Construction of Activator
6. Lower inclined plane/Catalan's Appliance
7. Upper Expansion plate with Expansion Screw

RECOMMENDED AND REFERENCE BOOKS

1. CONTEMPORARY ORTHODONTICS- WILLIAM R. PROFFIT
2. ORTHODONTICS FOR DENTAL STUDENTS -WHITE and GARDINER
3. HANDBOOK OF ORTHODONTICS MOYERS
4. ORTHODONTICS - PRINCIPLES AND PRACTICE GRABER
5. DESIGN, CONSTRUCTION AND USE OF REMOVABLE ORTHODONTIC APPLIANCES C. PHILIP ADAMS
6. CLINICAL ORTHODONTICS: VOL1 & 2 SALZMANN
7. ORTHODONTICS DIAGNOSIS OF AND MANAGEMENT OF MALOCCLUSION AND DENTOFACIAL DEFORMITIES- O. P. KHARBANDA
8. TEXTBOOK OF ORTHODONTICS, SAMIR E. BISHARA




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Revised Syllabus for BDS 4th Year

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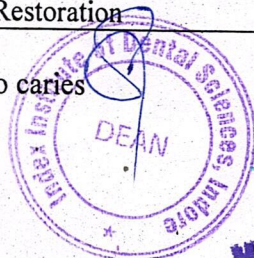
[Part III- SEC.4]

THE GAZETTE OF INDIA: EXTRAORDINARY

CONSERVATIVE DENTISTRY & ENDODONTICS

Theory Hours: 135 Practical Hours: 200 Clinical Hours: 370 Total Hours :705

S. No	Topic
1.	Introduction To Operative Dentistry <ul style="list-style-type: none"> • Definition Of Operative Dentistry • History Of Operative Dentistry • Factors affecting operative treatment – Indications – Considerations <ul style="list-style-type: none"> • Factors affecting the future demand of operative dentistry – Economic factors – Demographic factors
2.	Nomenclature Of Dentition <ul style="list-style-type: none"> • Introduction And Need Of Nomenclature • Commonly Used Nomenclature Systems – FDI, -Universal – Zygmondy-Palmer System Advantages/Disadvantage Of Each System
3.	Review Of Dental Anatomy <ul style="list-style-type: none"> • Development Of Tooth And And Associated Structures • Anatomy Of Tooth Related To Operative Dentistry Importance Of Pits & Fissures And Proximal Contact Areas In Relation To Cavity Preparation
4.	Gnathological Concepts of Restoration <ul style="list-style-type: none"> • Physiology of Occlusion • Normal Occlusion • Ideal Occlusion • Mandibular Movements • Occlusal Analysis • Occlusal Rehabilitation & Restoration
5.	Dental Caries <ul style="list-style-type: none"> • Definition And Introduction to caries • Etiology of caries • Various Theories • Classification Of Caries • Stages Of Caries In Enamel • Stages Of Caries in Dentin • Clinical Features of caries • Morphological Features of caries • Microscopic features of enamel and dentinal caries



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	<ul style="list-style-type: none"> • Prevention Of Dental Caries -diet modification - fluoride application - caries vaccines • Caries Activity Tests • Treatment of Caries • Clinical diagnosis & Sequelae of dental caries
6.	Preventive measures in restorative practice: Plaque control , pit and fissure sealants, dietary measures ,restorative procedures and periodontal health
7.	Applied Dental Materials Amalgam <ul style="list-style-type: none"> • History Of Amalgam • Advantages/Disadvantages • Indications & Contra indications Of Amalgam • Composition of amalgam • Physical & mechanical properties • Amalgam Reaction Of High And Low copper Amalgam • Procedure and clinical technique for amalgam restoration • Failure of amalgam • Mercury toxicity • Recent advances in amalgam Dental Cements <ul style="list-style-type: none"> • Classification Of Dental Cements • Detail About Each Cemernt • Zn phosphate cement • Zn polycarboxylate cement • Zinc oxide eugenol • Glass ionomer cement • Physical, Mechanical Properties And Manipulation Of Each Cement Composites <ul style="list-style-type: none"> • Introduction To Composite Material • History Of Resins • Classification Of Composites • Composition • Dentin Bonding Agents • Curing Methods • Composite Placement Procedures • Cavity preparation for composites • Recent advances in composites • Limitations of composites Dental Porcelain
8.	Treatment Planning For Operative Dentistry <ul style="list-style-type: none"> • Patient Evaluation • Clinical and Radiographic Examination • Tests for diagnosis of caries <ul style="list-style-type: none"> • Vitality tests, Diagnosis and preparation of case sheet • Treatment Planning <ul style="list-style-type: none"> • Treatment Record
9.	PRELIMINARY CONSIDERATIONS FOR OPERATIVE DENTISTRY Preoperative patient and dental team consideration <ul style="list-style-type: none"> • Chair and patient position • Operating positions • Operating stools



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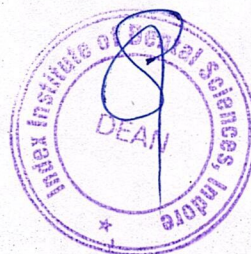
	<ul style="list-style-type: none"> Instrument exchange
10.	PAIN CONTROL FOR OPERATIVE DENTISTRY <ul style="list-style-type: none"> Introduction Method to control pain in operative dentistry Local anesthesia Patient factor Local anesthetic agents Technique of local anesthesia Precautions during injection Advantages of local anesthesia Alternative methods to control pain Premedication with sedatives Inhalation sedation Hypnosis Electronic dental anesthesia
11.	CONTROL OF OPERATING FIELD <ul style="list-style-type: none"> Introduction Goals of isolation Method of isolation Cotton rolls and cellulose wafers Rubber dam Introduction Indication Contraindication Rubber dam equipments Rubber dam application technique Removal of rubber dam Aids for leaking dams Advantages Disadvantages Saliva injectors High volume evacuators Throat shield Anti sialogagues
12.	MANAGEMENT OF GINGIVAL TISSUE <ul style="list-style-type: none"> Introduction Indication for gingival tissue management Methods of gingival tissue management Physicomechanical Chemicomechanical Chemical Recent techniques for gingival retraction Laser Retraction by dilatation of gingival sulcus
13.	Pulp Protection <ul style="list-style-type: none"> Indications and need for Liners ,base and varnish Composition of each Material aspect and application procedure
14.	Principles Of Cavity Preparation <ul style="list-style-type: none"> Definition of Cavity Preparation Nomenclature of Cavity walls, angles and floors Classification of Cavities Various Principles of Cavity Preparation Steps of Initial Cavity Preparation Steps of Final Cavity Preparation



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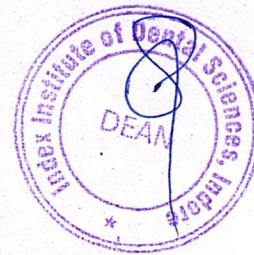
15.	Armamentarium In Cavity Preparation <ul style="list-style-type: none"> • History Of Dental Instruments • Classification Of Hand And Rotary Instruments • Details Of Hand Cutting Instruments – instrument formula – instrument design • Sharpening of instruments • Grasps And Rests • Rotary Instruments – Bur Blade Design – Rake And Clearance Angle • Sterilisation of instruments • Basic instrument tray set up
16.	RESTORING CONTACTS AND CONTOURS <ul style="list-style-type: none"> • Introduction • Matrices • Definition • Ideal requirements • Classification of matrices • Functions • Parts of matrices • Description of various matrices • Tooth separation and wedges • Introduction • Definition • Need for tooth separation • Method of tooth separation • Recent advances
17.	Cavity Preparation For Amalgam Restoration <ul style="list-style-type: none"> • Implication of Initial & Final Cavity Preparation steps to cavity preparation for Dental Amalgam • Recent cavity modifications
18.	COMPLEX AMALGAM RESTORATION <ul style="list-style-type: none"> • Indication • Contraindication • Advantages • Disadvantages Pin retained amalgam restoration <ul style="list-style-type: none"> • Introduction • Types of pins • Indication • Contraindications • Advantages • Disadvantages • Pin placement factors and technique . • Failures of pin retained restoration • Use of automatrix
19.	Anterior restorations : Selection of cases, selection of material , step wise procedure for using restorations ,silicate (theory only) glass ionomers ,composites ,sandwich technique and bevels of the same . Indications and Limitations
20.	CAST RESTORATIONS



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	<ul style="list-style-type: none"> • Cast metal alloy –(noble and non-noble) • Indications • Contraindications • Advantages • Disadvantages • Tooth preparation for class I & class II cast metal inlay • Armamentarium • Initial preparation • Final preparation • Fabrication of wax pattern • Spruing& investing • Casting procedure • Casting defects • Die materials and preparation • Impression materials
21.	Difference between cast and amalgam cavity preparation with note on all three types of bevels used for cast restorations
22.	INDIRECT TOOTH COLOR RESTORATIONS <ul style="list-style-type: none"> • Class-I and class-II tooth color restoration • Indication • Contraindication • Advantages • Disadvantages • Type of ceramic inlay and onlay • Clinical procedures • Tooth preparation • Tooth fabrication and cementation
23.	MANAGEMENT OF DISCOLORED TEETH <ul style="list-style-type: none"> • Classification of discoloration • Bleaching treatment • Microabrasion and macroabrasion • Veneers • Laminates • Aesthetic dentistry
24.	Temporization and interim restorations
25.	DIRECT FILLING GOLD RESTORATIONS <ul style="list-style-type: none"> • Direct gold • Indications • Contraindications • Cavity preparation for direct filling gold • Type of the direct gold • Principle of manipulation of direct filling gold • Cohesion and degassing • Compaction of direct gold
26.	HYPERSENSITIVE DENTIN AND ITS MANAGEMENT <ul style="list-style-type: none"> • Introduction • Definition • Etiology • Direct innervations theory • Odontoblastic receptor theory • Hydrodynamic theory • Clinical features



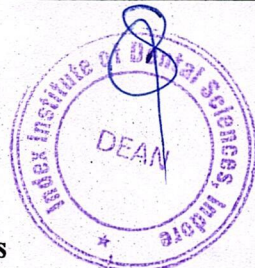
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	<ul style="list-style-type: none"> • Diagnosis • Clinical management
27.	Microleakage
28.	NON CARIOUS DESTRUCTION OF TOOTH STRUCTURE AND THEIR MANAGEMENT <ul style="list-style-type: none"> • Introduction to non carious defects • Etiology of non-cariou lesions • Diagnosis • Clinical management of non- carious cervical lesion
29.	LASERS IN CONSERVATIVE DENTISTRY <ul style="list-style-type: none"> • Introduction • History • Components of laser • Basic principle of laser • Laser- tissue intraction • Type of lasers • Laser applications in conservative dentistry. • Laser safety
30.	Management of deep carious lesions , direct and indirect pulp capping
31.	Recent advances in Conservative Dentistry
32.	Guidelines for managing Epidemics, Pandemics and outbreaks

S.No.	Topic
33.	Introduction to endodontics Introduction , definition , scope & future
34.	DIAGNOSIS IN ENDODONTICS <ul style="list-style-type: none"> • History and record symptoms • Subjective symptoms • Objective symptoms • Various diagnostic aids • Recent advances in diagnosis in endodontics
35.	DENTAL PULP AND PERI-RADICULAR TISSUE <ul style="list-style-type: none"> • Embryology • Normal pulp -functions ,zones ,mineralization, effects of aging on pulp • Normal periradicular tissue -cementum, Pdl, alveolar process
36.	Endodontic Microbiology,bacteriological examinations, culture methods
37.	DISEASES OF PULP <ul style="list-style-type: none"> • Causes of pulpal diseases • Classification • Diseases of pulp Reversible pulpitis Irreversible pulpitis Chronic hyperplastic pulpitis Internal resorption Pulp degeneration Necrosis of pulp Treatment of pulpal diseases
38.	DISEASES OF PERIRADICULAR TISSUES <ul style="list-style-type: none"> • Causes of periradicular diseases • Classification



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	<ul style="list-style-type: none"> • Diseases Symptomatic apical periodontitis Acute alveolar abscess Phoenix abscess Asymptomatic apical periodontitis Chronic alveolar abscess Granuloma Radicular cyst Condensing osteitis External root resorption Persistent apical periodontitis • Diseases of periradicular tissues of nonendodontic origin <p>RATIONALE OF ENDODONTIC TREATMENT</p> <ol style="list-style-type: none"> 1. Inflammation 2. Endodontic implications
39.	<p>SELECTION OF CASES FOR TREATMENT</p> <ol style="list-style-type: none"> 1. Common medical findings that may influence endodontic treatment planning 2. Dental evaluation and development of the endodontic treatment plan <ul style="list-style-type: none"> • Periodontal considerations • Surgical considerations • Restorative considerations • Endodontic therapy or dental implant • Retreatment • Immature teeth • Other factors
40.	<p>PRINCIPLES OF ROOT CANAL TREATMENT</p> <ul style="list-style-type: none"> ○ Local anesthesia ○ Rubber dam isolation ○ Techniques of rubber dam application ○ Sterilization of instruments ○ Recommended sterilization protocols ○ Biological monitoring
41.	<p>Vital pulp therapy</p> <ul style="list-style-type: none"> • Pulpotomy • Apexogenesis and Apexification • Introduction to Regenerative endodontics
42.	<p>ANATOMY OF PULP CAVITY AND ACCESS OPENING</p> <ul style="list-style-type: none"> • Components of the root canal system • Root canal anatomy • Anatomy of the apical root • Objectives and guidelines for access cavity preparation • Armamentarium for access cavity preparation • Morphology and Clinical guidelines for access cavity preparation for individual teeth • Challenging access preparations



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	<ul style="list-style-type: none"> • Errors in access cavity preparation
43.	WORKING LENGTH DETERMINATION <ol style="list-style-type: none"> 1. Definition 2. Anatomical considerations 3. Methods of determining working length Radiographic methods Nonradiographic methods Electronic methods
44.	ENDODONTIC INSTRUMENTS <ol style="list-style-type: none"> 1. Hand instruments 2. Instruments for pulp space preparation Classification Manually operated instruments Low speed rotary instruments Rotary instruments for canal preparation Sonic and ultrasonic instruments ISO standardization of instruments Devices for working length determination Instruments for obturation
45.	CLEANING AND SHAPING <ol style="list-style-type: none"> 1. Goals of shaping radicular space 2. Guidelines for shaping root canal 3. Phases in shaping 4. Root canal Shaping Techniques
46.	INTRACANAL IRRIGANTS <ol style="list-style-type: none"> 1. Ideal requirements of irrigants 2. Functions of irrigants 3. Types of endodontic irrigants 4. Irrigation guidelines 5. Irrigation techniques
47.	INTRACANAL MEDICAMENTS <ol style="list-style-type: none"> 1. Types 2. Ideal requirements 3. Mechanism of action 4. Recent advancements
48.	OBTURATION <ol style="list-style-type: none"> 1. Timing of obturation 2. Length of obturation 3. Requirements of ideal root canal filling material 4. Endodontic Sealers 5. Core materials 6. Techniques of obturation 7. Coronal seal 8. Recent advances in obturating materials
49.	RESTORATION OF ENDODONTICALLY TREATED TEETH <ol style="list-style-type: none"> 1. Planning of post endodontic restoration 2. Post endodontic restoration fabrication 3. Components of post core preparation 4. Classification and description of posts



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50.	TRAUMATIC INJURIES OF TEETH <ol style="list-style-type: none"> 1. Causes 2. Examination of traumatic injuries 3. Classification & management of traumatic injuries 4. Uncomplicated and complicated crown fractures 5. Response of pulp to trauma 6. Effect of trauma on supporting tissues
51.	ENDODONTIC EMERGENCIES AND THEIR MANAGEMENT <ol style="list-style-type: none"> 1. Diagnosis & treatment planning 2. Pretreatment, Intratreatment & Postobturation emergencies
52.	PROCEDURAL ACCIDENTS AND THEIR MANAGEMENT <ol style="list-style-type: none"> 1. Related to access opening, perforation and its management 2. Related to canal shaping and cleaning, Broken instruments and its management, management of single and double curved root canals 3. Relation to obturation
53.	ENDO-PERIO RELATIONSHIP <ol style="list-style-type: none"> 1. Pathways of communication between pulp and periodontium 2. Effect of pulpal & periodontal disease on pulp 3. Classification 4. Diagnosis & treatment planning Management
54.	RESORPTION AND ITS MANAGEMENT <ol style="list-style-type: none"> 1. Classification 2. Cells involved in tooth resorption 3. Internal, External Cervical root resorption
55.	NON SURGICAL ENDODONTIC RETREATMENT <ol style="list-style-type: none"> 1. Etiology of persistent apical periodontitis 2. Treatment planning 3. Retreatment procedures 4. Prognosis
56.	SURGICAL ENDODONTICS <ol style="list-style-type: none"> 1. Classification 2. Presurgical considerations 3. Indications and contraindications 4. Principles 5. Flap designs 6. Application of surgical techniques 7. Root end filling material
57.	Biofilm and smear layer in endodontics
58.	SINGLE VISIT ENDODONTICS <ol style="list-style-type: none"> 1. Indications 2. Single vs multiple visit 3. Clinical considerations
59.	PHARMACOLOGY IN ENDODONTICS <ol style="list-style-type: none"> 1. Pain control 2. Selection of antibiotics
60.	MODERN CONCEPTS IN ENDODONTICS <ol style="list-style-type: none"> 1. Lasers 2. Adhesive endodontics
61.	ETHICS IN ENDODONTIC PRACTICE <ol style="list-style-type: none"> 1. Principles of ethics 2. Informed consent 3. Dental negligence



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	4. Malpractice 5. Dentist Act & its amendment 6. Duties towards government 7. Dental material and basic equipment management
62.	Introduction to Magnification

MINIMUM CLINICAL REQUIREMENTS MANDATORY TO APPEAR FOR UNIVERSITY EXAMINATION:

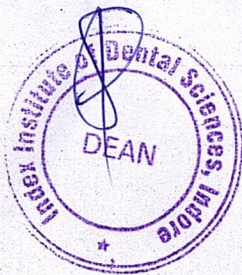
1. Diagnosis, treatment planning and case history- 10 cases
2. Restoration: Amalgam/GIC/Composite: 90*
3. RCT (Anterior): 10*


*Should have completed 75% of the above clinical work

Recommended Books:

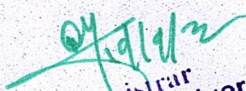
Conservative Dentistry and Endodontics

- 1) The Art & Science of Operative Dentistry, Sturdevant, Mosby U.S.A
- 2) Principle & Practice of Operative Dentistry, Charbeneu, Varghese Publishing, Mumbai.
- 3) Grossman's Endodontic Practice, B. Suresh Chandra & V. GopiKrishna, Wolters Kluwer
- 4) Phillips' Science of Dental Materials Anusavice, Chiayi Shen, H. Ralph Rawls
- 5) Sturdevant's art and Science of Operative Dentistry




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MALWANCHAL UNIVERSITY, INDORE (M.P.)
Syllabus for BDS 4th Year – Oral Medicine & Radiology

Adapted from
[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

Teaching Hours: 280

Theory Hours: 80

Practical Hours: 200

ORAL MEDICINE & RADIOLOGY

Oral Medicine and Radiology Oral Medicine is a speciality of dentistry concerned with the basic diagnostic procedures and techniques useful in recognising the diseases of the oral tissues of local and constitutional origin and their medical management.

Radiology is a science dealing with x-rays and their uses in diagnosis and treatment of diseases in relation to orofacial diseases.

SYLLABUS

1. Methods of clinical diagnosis of oral and systemic diseases as applicable to oral tissue including modern diagnostic techniques.
2. Laboratory investigations including special investigations of oral and Oro-facial diseases.
3. Teeth in local and systemic diseases, congenital and heredity disorders.
4. Oral manifestation of systemic diseases.
5. Oro-facial pain.
6. Psychosomatic aspects of oral diseases.
7. Management of medically compromised patients including medical emergencies in the dental chair.
8. Congenital and hereditary disorders involving tissues of oro facial region
9. Systemic diseases due to oral foci of infection.
10. Hematological, dermatological, metabolic, nutritional and endocrinal conditions with oral manifestations.
11. Neuro- muscular diseases affecting oro facial region.
12. Salivary glands disorders.
13. Tongue in oral and systemic diseases.



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14. TMJ dysfunctions and diseases.
15. Concept of immunity as related to oro facial lesions including AIDS.
16. Cysts, neoplasms, odontomes and fibro-osseous lesions.
17. Oral changes in osteodystrophies and chondrodystrophies.
18. Premalignant and malignant lesion of orofacial region.
19. Allergy and other miscellaneous conditions.
20. Therapeutics in oral medicine- clinical pharmacology.
21. Forensic Odontology.
22. Computers in oral diagnosis and imaging.
23. Evidence based oral care in treatment planning

Oral and Maxillo-facial Radiology: study includes seminars/ lectures/ demonstrations

1. History of Radiology, structure of x-ray tube, production of x-rays, property of x-rays.
2. Biological effects of radiation.
3. Filtration of collimation, grids and units of radiation.
4. Films and recording media.
5. Processing of image in radiology.
6. Design of x-ray department, dark room and use of automatic processing units.
7. Localization: radiographic techniques.
8. Faults of dental radiographs and concept of ideal radiograph.
9. Quality assurance and audit in dental radiology.
10. Extra oral imaging techniques.
11. O. P. G. and other radiology techniques.

TUTORIALS DURING CLINICAL POSTINGS:

1. Infection control
2. Diagnostics instruments
3. Chair position and principles of diagnostic instrumentation

DEMONSTRATIONS:

1. History taking and Clinical examination of the patients.
2. Techniques for taking Intra-oral Periapical radiographs with Bisecting angle and Paralleling angle technique
3. Developing and processing of the radiograph
4. Demonstrations on taking opg and extra oral radiographs



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PRESCRIBED BOOKS:

1. Burket's Oral Medicine –12th edition - Michael Glick (Latest)
2. White and Pharoah's Oral Radiology - 8th Edition – Elsevier (latest edition)

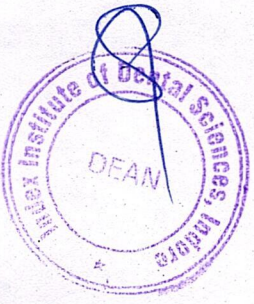
REFERENCE BOOKS:

1. Textbook of Oral Medicine, Oral Diagnosis and Oral Radiology – Ravikiran ongole, Praveen B.
2. Textbook of Dental Radiology – Pramod John R
3. Essentials of Oral & Maxillofacial Radiology – Freny Karjodkar
4. Cysts of the Oral and Maxillofacial Regions – Marvin Shear, Paul Speight
5. Medical Problems in Dentistry – Crispian Scully
6. Differential Diagnosis of Oral and Maxillofacial Lesions - Norman Kenyon Wood, Paul W. Goaz
7. Treatment Planning in Dentistry - Stephen J. Stefanac, Samuel P. Nesbit

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MALWANCHAL UNIVERSITY, INDORE (M.P.)

Syllabus for BDS 4th Year

Adapted from

[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

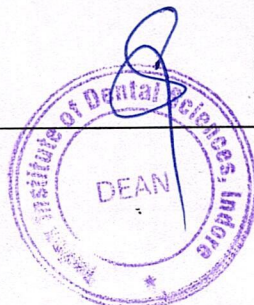
ORAL AND MAXILLOFACIAL SURGERY

Teaching Hours: 250 hr

Theory Hours: 50hr

Practical Hours: 200hr

S. No.	Topic	Description	Hours
8.	Impacted teeth	i. Incidence, definition, etiology. ii. Impacted mandibular third molar Classification, reasons for removal Assessment - both clinical & radiological. Armamentarium and surgical procedures for removal. Complications during and after removal, its prevention and management. iii. Maxillary third molar, Indications for removal, classification, Armamentarium and surgical procedure for removal, Complications during and after removal, its prevention and management. iv. Impacted maxillary canine. Reasons for canine impaction, indications for removal, Methods of management, Localization, labial and palatal approaches, Complications during and after removal, its prevention and management Surgical exposure, Transplantation	4
9.	Neurological Diseases	i. Trigeminal neuralgia - definition, etiology, clinical features and methods of management including medical and surgical. ii. Facial paralysis - etiology, clinical features. iii. Nerve injuries - Classification, clinical features and management, Nerve Grafting -Neuropathy etc.	3
10.	Implants	Concept of osseointegration, History of implants their design & surface characteristics. Knowledge of various types of implants, Bone biology, Morphology, Classification of bone and its relevance to implant placement. Bone augmentation materials. Soft tissue considerations in implant dentistry. Surgical procedure to place implants.	2



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ORAL & MAXILLOFACIAL SURGERY
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11.	Diseases of the maxillary sinus	Surgical anatomy and development of the sinus. Sinusitis both acute and chronic Surgical approach of sinus - Cald well-Luc procedure, Knowledge of FESS, Removal of root from the sinus. Oro-antral fistula and communications- etiology, clinical features and surgical methods for closure.	2
12.	Cysts of the mouth and jaws	Definition, classification, pathogenesis. Diagnosis - Clinical features, radiological, FNAC, use of contrast media and histopathology. Management - types of surgical procedures. Rationale of the techniques, indications, contraindications, procedures, complications etc.	4
14.	Jaw deformities	Basic forms - Prognathism, Retrognathism and open bite. Reasons for correction. Diagnosis and treatment planning Outline of surgical methods carried out on mandible and maxillasubapical, body, sagittal split osteotomy, genioplasty, anterior maxillary Osteotomy, Le fort I osteotomy Role of distraction osteogenesis in correction of jaw deformities	3
15.	Cleft Lip and Palate	Etiology of the clefts, incidence, classification Role of dental surgeon/ maxillofacial surgeon in the cleft team. Outline of the closure procedures,	1




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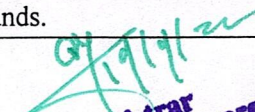
16.	Infections of the Oral cavity	Introduction, surgical anatomy of the superficial and deep fasciae of head and neck Factors responsible for infection, pathogenicity, virulence Dento-alveolar abscess - aetiology, clinical features and management. Spread of odontogenic infections through various facial spaces and its management Ludwig's angina - definition, aetiology, clinical features, management and complications Course of odontogenic infections	6
17.	Fungal Infections of head and neck region	Candidiasis, Actinomycosis, Coccidiomycosis, Rhinosporidosis, Antifungal agents	1
18.	Osteomyelitis of the jaws	Definition, etiology, pre-disposing factors, classification, clinical features and management.	1
19.	Carcinoma of the oral cavity	Lymphatic Spread. TNM classification, Staging . Biopsy-types, filling of Histopathology request form Outline of management of Squamous Cell Carcinoma: surgery, radiation and chemotherapy Role of dental surgeons in the prevention and early detection of oral cancer.	2
20.	Osteoradionecrosis -	Definition, etiology, theories, pre-disposing factors, classification, clinical features and management.	1



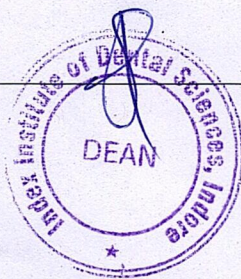
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21.	Maxillofacial Traumatology	<p>Emergency management in maxillofacial trauma</p> <p>General considerations, types of fractures, aetiology, clinical features and general principles of management.</p> <p>Mandibular fractures - Applied anatomy, classification. Diagnosis - Clinical and radiological features, Management - Reduction - closed and open Fixation and immobilization methods outline of rigid and semi-rigid internal fixation.</p> <p>Fractures of the condyle - etiology, classification, clinical features, principles of management</p> <p>Fractures of the middle third of the face. Definition of the mid face, applied surgical anatomy, classification, clinical features and outline of management.</p> <p>Alveolar fractures - methods of management</p> <p>Fractures of the Zygomatic complex and orbit. Classification, clinical features, indications for treatment, various methods of reduction and fixation.</p> <p>maxillofacial Injuries in Children</p> <p>Complications of fractures - delayed union, non-union and malunion.</p>	7
22.	Salivary gland diseases	<p>Surgical Anatomy of Minor and Major salivary glands</p> <p>Sialography, contrast media, procedure.</p> <p>Inflammatory conditions of the salivary glands</p> <p>Sialolithiasis- Sub mandibular duct and gland , parotid duct and gland ,Clinical features, management, Intraoral and extra oral Sialolithotomy. Salivary fistulae, sialocoele</p> <p>Autoimmune diseases of the salivary glands, diagnosis managment</p> <p>Common tumours of salivary glands like Pleomorphic adenoma including minor salivary glands.</p>	3




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23.	Tumors of the Oral cavity	<p>General considerations, surgical principles</p> <p>Non odontogenic benign tumours occurring in oral cavity fibroma, papilloma, lipoma, ossifying fibroma, myxoma etc.</p> <p>Odontogenic tumors: both benign and malignant.</p> <p>Ameloblastoma - Clinical features, radiological appearance and methods of management.</p> <p>Osteogenic tumours of the faciomaxillary region.</p>	4
24.	Disorders of T.M. Joint	<p>Applied surgical anatomy of the joint.</p> <p>Development of the TMJ</p> <p>Surgical approaches to TMJ</p> <p>Radiological investigations</p> <p>Hypermobility of TMJ; Dislocation - Types, aetiology, clinical features and management.</p> <p>Hypomobility of TMJ; Classification, Ankylosis - Definition, aetiology, clinical features and management</p> <p>Myo-facial pain dysfunction syndrome,</p>	4
		<p>etiology, clinical features, management- Non surgical and surgical.</p> <p>Internal derangement of the joint.</p> <p>Inflammatory Diseases of T.M. Joint.</p> <p>Arthroscopy</p>	



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MALWANCHAL UNIVERSITY, INDORE (M.P.)
Syllabus for BDS 4th Year -PERIODONTOLOGY

Adapted from

[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

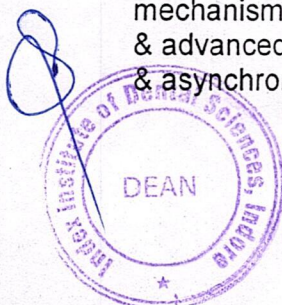
PERIODONTOLOGY

Teaching Hours: 280

Theory Hours: 80

Practical Hours: 200

1. Introduction: Definition of Periodontology, Periodontics, Periodontia, Brief historical background, Scope of Periodontics
2. Development of Periodontal tissues, micro-structural anatomy and biology of periodontal tissues in detail. Gingiva. Junctional epithelium in detail, Epithelial-mesenchymal interaction, Periodontal ligament, Cementum, Alveolar bone.
3. Defensive mechanisms in the oral cavity: Role of Epithelium, Gingival fluid, Saliva and other defensive mechanisms in the oral environment.
4. Age changes in Periodontium. Age changes in teeth and periodontal structures and Their periodontal structures association with periodontal diseases and their significance in Geriatric dentistry
5. Classification of Periodontal Diseases. Need for classification, scientific basis of classification of periodontal diseases, Classification of gingival and periodontal diseases as described in 1989 and 1999 classification.
6. Epidemiology of periodontal diseases Definition of index, incidence, Prevalence epidemiology, endemic, epidemic, and pandemic. Classification of indices (Irreversible and reversible), Deficiencies of earlier indices used in Periodontics. Detailed understanding of Silness & Loe Plaque Index, Loe & Silness Gingival Index, CPITN & CPI. Prevalence of periodontal diseases in India and other countries.
7. Defence mechanisms of the Gingiva
8. Gingival Inflammation
9. Clinical Features of Gingivitis
10. Gingival Enlargements
11. Acute Gingival Infections
12. Gingival Diseases in Childhood
13. Desquamative Gingivitis
14. Host response - Mechanism of initiation and progression of periodontal diseases- Basic concepts about cells, Mast: cells, neutrophils, macrophages, lymphocytes, immunoglobulins, complement system, immune mechanisms & cytokines in brief. Stages in gingivitis-Initial, early, established & advanced. Periodontal disease activity, continuous paradigm, random burst & asynchronous multiple burst hypothesis.



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15. Periodontal Microbiology: Dental Plaque (Biofilm), Definition, New concept of biofilm Types, composition, bacterial colonization, growth, maturation & disclosing agents Role of dental plaque in periodontal diseases, Plaque microorganisms in detail and bacteria associated with periodontal diseases, Plaque retentive factors, Materia alba Food debris
16. The Role of Dental Calculus and other Local Predisposing factors: Calculus, Iatrogenic factors, Malocclusion, Periodontal complications associated with orthodontic therapy, Extraction of Impacted third molars, Habits and self inflicted injuries, Smokeless Tobacco, Radiation therapy, Food Impaction-- Definition Types, Aetiology, - Hirschfield's classification, - Signs & symptoms & sequelae of treatment
17. Smoking and Periodontal Disease
18. Chronic Periodontitis
19. Aggressive Periodontitis
20. Bone loss and patterns of Bone destruction in Periodontal Disease
21. Influence of Systemic Disorders on the Periodontium
22. Oral Malodor
23. Clinical Diagnosis
24. Radiographic Aids in Diagnosis of Periodontal Diseases
25. Determination of Prognosis-Definition, types, purpose and factors to be taken into consideration
26. Treatment Plan-Factors to be considered
27. Periodontal management of Medically Compromised Patients
28. Periodontal therapy in the Female patients
29. Phase I Periodontal Therapy: Rationale for Periodontal Treatment.
30. Plaque control for Periodontal Patients- Mechanical tooth brushes, interdental cleaning aids, dentifrices. Chemical; Classification and mechanism of action of each & pocket irrigation
31. Scaling and Root Planing
32. Sonic and Ultrasonic Instrumentation and Irrigation
33. Anti Infective Therapy
34. Host Modulation
35. Phase II Periodontal Therapy
36. General Principles of Periodontal Surgery
37. Gingival Surgical Techniques
38. The Periodontal Flap: Different flap techniques for pocket eradication
39. Resective Osseous Surgery
40. Reconstructive Periodontal Surgery
41. Furcation: Involvement and Treatment
42. Periodontal Plastic Surgery and Esthetic Surgery-Definition, Mucogingival problems: Aetiology, classification of gingival recession (RD:Miller Jr. and Sullivan and Atkins), Indications & objectives, Gingival extension procedures: lateral pedicle graft, frenectomy, frenotomy, Crown lengthening procedures.
43. Periodontal Restorative Interrelationships
44. Diagnosis and Management of Periodontic- Endodontic Lesions



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45. Periimplant Anatomy, Biology and Function, Implants Definition, types, scope & biomaterials used. Periodontal considerations: such as implant-bone Interface, implant-gingiva interface, implant failure, peri- Implantitis and its management
46. Maintenance Phase (Supportive Periodontal Therapy)- Aims, objectives, and Principles, Importance,- Procedures, • Maintenance of implants
47. Recent Advances In Periodontal Microsurgery
48. Infection Control Protocol- Sterilization and various aseptic Procedures
49. Dental Ethics
50. Periodontal Instruments- Classification and Description of each Instrument. Sharpening of Instrumentation
51. Principles of Periodontal Instrumentation
52. Impact of Periodontal Infections on systemic health (Periodontal Medicine)
53. Pathology and Management of Periodontal Problems in patients with HIV infection.
54. Periodontal Response to External Forces
55. Periodontal Abscess
56. Recent advances in surgical therapy: Lasers in Periodontal Therapy
57. Levels of Significance.
58. Risk Assessment

TUTORIALS DURING CLINICAL POSTINGS:


1. Infection control
2. Periodontal instruments
3. Chair position and principles of instrumentation
4. Maintenance of instruments (sharpening)
5. Ultrasonic, Piezoelectric and sonic scaling - Demonstration of technique
6. Diagnosis of periodontal disease and determination of prognosis
7. Radiographic interpretation and lab investigations
8. Motivation of patients- oral hygiene instructions

Students should be able to record a detailed periodontal case history, determine diagnosis, prognosis and plan treatment. Student should perform scaling, root planning, local drug delivery and SPT. Students shall be given demonstration of all periodontal surgical procedures.

DEMONSTRATIONS:

1. History taking and Clinical examination of the patients
2. Recording different Indices
3. Methods of using various scaling and surgical instruments
4. Polishing the teeth
5. Demonstration to patients about different oral hygiene aids
6. Surgical procedures- Gingivectomy, Gingivoplasty, and flap operations




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7. Follow up procedures, post operative care and supervision

REQUIREMENTS:

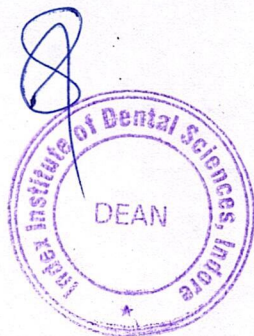
1. Diagnosis, treatment planning and discussion and total periodontal treatment- 15 cases
2. Dental scaling, oral hygiene instructions - 30 complete cases/ Equivalent
3. Assistance in periodontal surgery - 02 cases
4. A work record should be maintained by all the students and should be submitted at the time of examination after due certification from the head of the department. Students should have to complete the work prescribed by the concerned department from time to time and submit a certified record for evaluation.

PRESCRIBED BOOK:

Glickman's Clinical Periodontology -Carranza

REFERENCE BOOKS:

1. Essentials of Periodontology and Periodontics- Torquil MacPhee
2. Contemporary Periodontics- Cohen
3. Periodontal therapy- Goldman
4. Orbans' Periodontics- Orban
5. Oral Health Survey- W.H.O.
6. Preventive Periodontics- Young and Stiffler
7. Public Health Dentistry- Slack
8. Advanced Periodontal Disease- John Prichard
9. Preventive Dentistry- Forrest
10. Clinical Periodontology- Jan Lindhe
11. Periodontics- Baer & Morris.



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Syllabus for BDS 4th Year

Adapted from

[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

PUBLIC HEALTH DENTISTRY

Teaching Hours: 260 hr

Theory Hours: 60 hr

Practical Hours: 200 hr

Syllabus:

1. Introduction to Dentistry: Definition of Dentistry, History of dentistry, Scope, aims and objectives of Dentistry.
2. Public Health:
 - i. Health & Disease: - Concepts, Philosophy, Definition and Characteristics
 - ii. Public Health: - Definition & Concepts, History of public health
 - iii. General Epidemiology: - Definition, objectives, methods
 - iv. Environmental Health: - Concepts, principles, protection, sources, purification environmental sanitation of water disposal of waste sanitation, then role in mass disorder
 - v. Health Education: - Definition, concepts, principles, methods, and health education aids
 - vi. Public Health Administration: - Priority, establishment, manpower, private practice management, hospital management.
 - vii. Ethics and Jurisprudence: Professional liabilities, negligence, malpractice, consents, evidence, contracts, and methods of identification in forensic dentistry.
 - viii. Nutrition in oral diseases
 - ix. Behavioral science: Definition of sociology, anthropology and psychology and their in dental practice and community.
 - x. Health care delivery system: Center and state, oral health policy, primary health care, national programmes, health organizations

Dental Public Health:

1. Definition and difference between community and clinical health.
 2. Epidemiology of dental diseases-dental caries, periodontal diseases, malocclusion, dental fluorosis and oral cancer.
 3. Survey procedures: Planning, implementation and evaluation, WHO oral health survey methods 1997, indices for dental diseases.
 4. Delivery of dental care: Dental auxiliaries, operational and non-operational, incremental and comprehensive health care, school dental health.
 5. Payments of dental care: Methods of payments and dental insurance, government plans
 6. Preventive Dentistry- definition, Levels, role of individual, community and profession, fluorides in dentistry, plaque control programmes.
- Research Methodology and Dental Statistics



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1. Health Information: - Basic knowledge of Computers, MS Office, Window 2000, Statistical Programmes
2. Research Methodology: -Definition, types of research, designing a written protocol
3. Bio-Statistics: - Introduction, collection of data, presentation of data, Measures of Central tendency, measures of dispersion, Tests of significance, Sampling and sampling techniques, errors, bias, blind trails and calibration.

Practice Management:

1. Place and locality
2. Premises & layout
3. Selection of equipments

4. Maintenance of records/accounts/audit.
Dentist Act 1948 with amendment.

Dental Council of India and State Dental Councils

Composition and responsibilities.

Indian Dental Association Head Office, State, local and branches.

PRACTICALS/CLINICALS/FIELD PROGEAMME IN COMMUNITY DENTISTRY:

These exercises designed to help the student in IV year students:

1. Understand the community aspects of dentistry
2. To take up leadership role in solving community oral health programme

Exercises:

- a) Collection of statistical data (demographic) on population in India, birth rates, morbidity and mortality, literacy, per capita income
- b) Incidence and prevalence of common oral diseases like dental caries, periodontal disease, oral cancer, fluorosis at national and international levels
- c) Preparation of oral health education material posters, models, slides, lectures, play acting skits etc.
- d) Oral health status assessment of the community using indices and WHO basic oral health survey methods
- e) Exploring and planning setting of private dental clinics in rural, semi urban and urban locations, availment of finances for dental practices-preparing project report.
- f) Visit to primary health center-to acquaint with activities and primary health care delivery
- g) Visit to water purification plant/public health laboratory/ center for treatment of western and sewage water
- h) Visit to schools-to assess the oral health status of school children, emergency treatment and health education including possible preventive care at school (tooth brushing technique demonstration and oral rinse programme etc.)



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i) Visit to institution for the care of handicapped, physically, mentally, or medically compromised patients

j) Preventive dentistry: in the department application of pit and fissure sealants, fluoride gel application procedure, A. R. T., Comprehensive health for 5 pts at least 2 patients

The colleges are encouraged to involve in the N.S.S. programme for college students for carrying out social work in rural areas

SUGGESTED INTERNSHIP PROGRAMME IN COMMUNITY DENTISTRY:

I. AT THE COLLEGE:

Students are posted to the department to get training in dental practice management.

(a) Total oral health care approach- in order to prepare the new graduates in their approach to diagnosis, treatment planning, cost of treatment, prevention of treatment on schedule, recall maintenance of records etc. at least 10 patients (both children and adults of all types posting for at least one month).

(b) The practice of chair side preventive dentistry including oral health education

II. AT THE COMMUNITY ORAL HEALTH CARE CENTRE (ADOPTED BY THE DENTAL COLLEGE IN RURAL AREAS) Graduates posted for at least on month to familiarize in:

(a) Survey methods, analysis and presentation of oral health assessment of school children and community independently using WHO basic oral health survey methods.

(b) Participation in rural oral health education programmes

(c) Stay in the village to understand the problems and life in rural areas

III. DESIRABLE: Learning use of computers-at least basic programme.

Examination Pattern

I. Index: Case History

b) Oral hygiene indices simplified- Green and Vermilion

c) Silness and Loe index for Plaque

d) Loe and Silness index for gingival

e) CPI

f) DMF: T and S, df:t and s

g) Deans fluoride index

II. Health Education



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1. Make one - Audio visual aid

2. Make a health talk

III. Practical work

1. Pit and fissure sealant

2. Topical fluoride application

BOOKS RECOMMENDED & REFERENCE:

1. Dentistry Dental Practice and Community by David F. Striffler and Brain A. Burt, Edn. -1983, W. B. Saunders Company

2. Principles of Dental Public Health by James Morse Dunning, IVth Edition, 1986, Harward University Press.

3. Dental Public Health and Community Dentistry Ed by Anthony Jong Publication by The C. V. Mosby Company 1981

4. Community Oral Health-A system approach by Patricia P. Cormier and Joyce I. Levy published by Appleton-Century-Crofts/New York, 1981

5. Community Dentistry-A problem oriented approach by P. C. Dental Hand book series Vol.8 by Stephen L. Silverman and Ames F. Tryon, Series editor-Alvin F. Gardner, PSG Publishing company Inc. Littleton Massachuseltts, 1980.

6. Dental Public Health- An Introduction to Community Dentistry. Edition by Geoffrey L. Slack and Brain Burt, Published by John Wrihth and sons Bristol, 1980

7. Oral Health Surveys- Basic Methods, 4th edition, 1997, published by W. H. O. Geneva available at the regional office New Delhi.

8. Preventive Medicine and Hygiene-By Maxcy and Rosenau, published by Appleton Century Crofts, 1986.

9. Preventive Dentistry-by J. O. Forrest published by John Wright and sons Bristol, 1980.

10. Preventive Dentistry by Murray, 1997.

11. Text Book of Preventive and Social Medicine by Park and park, 14th edition.

12. Community Dentistry by Dr. Soben Peter.

13. Introduction to Bio-statistics by B. K. Mahajan

14. Introduction to Statistical Methods by Grewal.



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Syllabus for BDS 4th Year

Adapted from

[Part III- SEC.4] THE GAZETE OF INDIA: EXTRAORDINARY

PROSTHODONTICS AND CROWN AND BRIDGE

Teaching Hours: 895

Theory Hours: 135

Practical Hours: 760

Complete Dentures

A. Applied Anatomy and Physiology

1. Introduction
2. Biomechanics of the edentulous state
3. Residual ridge resorption

B. Communicating with patient

1. Understanding the patient's Mental Attitude-
2. Instructing the patient

C. Diagnosis and treatment planning for patients

1. With some teeth remaining
2. With no teeth remaining
 - a) Systemic status
 - b) Local factor
 - c) The geriatric patients
 - d) Diagnostic procedures

D. Articulators - discussion

E. Improving the patient's denture foundation and ridge relation - an overview.

- a) Pre-operative examination
- b) Initial hard tissue & soft tissue procedures
- c) Secondary hard and soft tissue procedure
- d) Implant procedure



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- e) Congenital deformities
- f) Postoperative procedure.

F. Principles of Retention, Support and Stability

G. Impressions - detail

- a) Muscles of facial expression
- b) Biological considerations for maxillary and mandibular impression including anatomy landmark and their interpretation.
- c) Impression objectives
- d) Impression materials
- e) Impression techniques
- f) Maxillary and mandibular impression procedures. i) Preliminary impressions ii) final Impressions
- g) Laboratory procedures involved with impression making (Beading & Boxing, and cast preparation)

H. Record bases and occlusion rims - in detail

- a) Materials & techniques
- b) useful guidelines and ideal parameters
- c) recording and transferring bases and occlusal rims

I. Biological consideration in jaw relation & jaw movements - craniomandibular relations.

- a) Mandibular movements
- b) Maxillo - mandibular relation including vertical and horizontal jaw relations.
- c) Concept of occlusion - discuss in brief

J. Relating the patient to the articulator

- a) Face bow types and uses - discuss in brief
- b) Face bow transfer procedure - discuss in brief

K. Recording maxillo mandibular relation

- a) Vertical relations
- b) Centric relation records
- c) Eccentric relation records.
- d) Lateral relation records



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L Tooth selection and arrangement

- a) Anterior teeth
- b) Posterior teeth
- c) Esthetic and functional harmony

M. Relating inclination of teeth to concept of occlusion - in brief

- a) Neurocentric concept
- b) Balanced occlusal concept

N. Trial dentures

O. Laboratory procedures

- a) Wax contouring
- b) Investing of dentures
- c) Preparing of mold
- d) Preparing & Packing acrylic resin
- e) Processing of dentures
- f) Recovery of dentures
- g) Lab remount procedures
- h) Recovering the complete denture from the cast
- i) Finishing and polishing the complete denture
- j) Plaster cast for clinical denture remount procedure

P. Denture insertion

- a) Insertion procedures
- b) Clinical errors
- c) Correcting occlusal disharmony
- d) Selective grinding procedures.

R. Treating problems with associated denture use - discuss in brief (tabulation / flow chart form)

S. Treating abused tissues - discuss in brief

T. Relining and rebasing of dentures - discuss in brief



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U. Immediate complete dentures construction procedure - discuss in brief

V. The single complete denture - discuss in brief

W. Overdentures denture - discuss in brief

X. Dental implants in complete denture - discuss in brief

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition
2. Diagnosis (of the particular situation / patient selection / treatment planning)
3. Types / classification
4. Materials
5. Methodology - Lab / Clinical
6. Advantages & disadvantages
7. Indication, contraindications
8. Maintenance phase
9. Oral Implantology
10. Ethics

Removable Flexible (Partial) Dentures

1. Introduction

- Terminologies and scope

2. Classification

3. Examination, Diagnosis & Treatment planning and evaluation of diagnostic data

4. Components of a removable partial

- Major connectors
- Minor connectors
- Rest and rest seats

5. Components of a Removable Partial Denture

- Direct retainers
- Indirect retainers
- Tooth replacement



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6. Principles of Removable Partial Denture Design

7. Survey and design - in brief

- Surveyors
- Surveying
- Designing

8. Mouth preparation and master cast

9. Impression materials and procedures for removable partial dentures

10. Preliminary jaw relation and esthetic try in for some anterior replacement teeth

11. Laboratory procedures for framework construction - in brief.

12. Fitting the framework - in brief.

13. Try - in of the partial denture - in brief

14. Completion of the partial denture - in brief

15. Inserting the Removable Partial Denture - in brief

16. Postinsertion observations.

17. Temporary Acrylic Partial Dentures.

18. Immediate Removable Partial Denture.

19. Removable Partial Dentures opposing Complete denture.

Note: It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition
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3. Types / Classification
4. Materials
5. Methodology - Lab / Clinical
6. Advantages & disadvantages
7. Indications, contradictions
8. Maintenance Phase



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Fixed Partial Dentures

To Be Covered In Detail

1. Introduction
2. Fundamentals of occlusion - in brief.
3. Articulators - in brief
4. Treatment planning for single tooth restorations.
5. Treatment planning for the replacement of missing teeth including selection and choice of abutment teeth.
6. Fixed partial denture configurations.
7. Principles of tooth preparations.
8. Preparations for full veneer crowns - in detail.
9. Preparations for partial veneer crowns - in brief
10. Provisional Restorations
11. Fluid Control and Soft Tissue Management
12. Impressions
13. Working Casts and Dies
14. Wax patterns
15. Pontics and Edentulous Ridges
16. Esthetic Considerations
17. Finishing and Cementation

Topics To Be Covered In Brief –

1. Solder Joints and Other Connectors
2. All - Ceramic Restorations
3. Metal - Ceramic Restorations
4. Preparations of intracoronal restorations.
5. Preparations for extensively damaged teeth.
6. Preparations for periodontally weakened teeth



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7. The Functionally Generated Path Technique

8. Investing and Casting

9. Resin - Bonded Fixed Partial Denture

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition

2. Diagnosis (of the particular situation / patient selection / treatment planning)

3. Types / Classification

4. Materials

5. Methodology - Lab / Clinical

6. Advantages & disadvantages

7. Indications, contradictions

8. Maintenance Phase

RECOMMENDED BOOKS :

1. Syllabus of Complete Denture by - Charles M. Heartwell Jr. and Arthur O. Rahn.

2. Boucher's "Prosthetic treatment for edentulous patients"

3. Essentials of complete denture Prosthodontics by - Sheldon Winkler.

4. Maxillofacial prosthetics by - William R. Laney.


5. McCracken's Removable partial Prosthodontics

6. Removable Partial Prosthodontics by - Ernest L. Miller and Joseph E. Grasso.

7. Contemporary Fixed Prosthodontics – Rosenstiel, Land and Fujimoto



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