# COURSE TITLE: DENTAL CARIES, PREVENTIVE ASPECT, ANESTHESIA & RADIOGRAPHY AND CLINICAL PRACTICE

MARKS

 STUDY HOURS: 60+160
 THEORY : 120

 PAPER: 01
 PRACTICAL: 30

 Term : 4<sup>th</sup>
 TIME : 03HRS

# COURSE CONTENTS STUDY HOURS

(Theory +Practical)

#### **COURSE CONTENTS**

#### STUDY HOURS

#### A. DENTAL CARIES- CONTROL AND PREVENTION

12+18

- A1. Definition of Dental caries, teeth affected, order and surface types of caries.
- A2. Epidemiology Age, Sex distribution, Genetics.
- A3. Etiology theories, diet, acid attack, control and prevention, fluoride, enzyme inhibitors.
- A4. Diet control.
- A5. Tooth pastes.
- A6. Natural hygiene.
- A7. Fluorides, Fluoridation. Prophylactic odonototomy.

# **B.** Dental HEALTH EDUCATION

12+18

- B1. MEANING OF health, positive health, Dental health, Dental education.
- B2. Objective and pre-requisites.
- B3. Responsibility for Dental education.
- B4. Chair side talks, lectures and group talks, exhibitions, health weeks, window displays, film shows, press radio and television articles.
- B4. Discussions and seminars.

# C. LOCAL ANAESTHESIA

6+12

- C1. Definition. Used by surgeon, used by Dental auxiliary.
- C2. Instruments, syringes, hubs, needles.
- C3. Local anesthetic solutions- epinephrine, procaine, lignocaine, topical anesthetics (all drugs in brief outline)
- C4. Types of local anesthesia, block infiltration, anatomical distribution of nerves for anesthesia
- C5. Site and location of injection, technique, contra-indications for use of local
- C6. And general anesthetics. Post injection complications

## D. RADIOGRAPHY

6 + 12

Types of x-ray Indications, for use in dentistry. Dangers and precautions, types of intraoral films. Bitewing and extra-oral Technique of processing, developing and amounting records, Practical work based on above.

# E. ORTHODONTICS

12+30

Definition: Brief outline of growth of skull and manidble .Eruption dates. Paths of eruption. Deciduous, Mixed & adult dentition. Normal aches.Roles of muscle in normal development. Brief outline of angle's Classification, skeletal classification. Etiology of malocclusion. Local and general factors. Habit effect of premature loss of primary teeth, permanent teeth. Brief account of methods of treatment by removable appliances. Fixed appliances imitations of treatment. Limitations of prevention.

# Oral Hygiene:

The filed of operation macroscopic appearance of teeth gingivae sulcus and epithelial attachment in the normal healthy mouth. Deposits and stains, their common location in the mouth, Factors influencing accumulation and retention. Classification and stains by location and by origin, appearance and treatment of yellow stains, green, black line stain metallic stains arising from degeneration of the pulp and stain caused by filling materials and drugs. Enamel hyperplasia, Dental plaque, hard deposits, supragingival and sub gingival calculus. Origin and composition of different deposits. Practical procedures for prophylactic removal of deposits. Possible sequel of failure of removal of stains and deposits and effects on the teeth, supporting tissue and general health, Gingivitis, Instrumentation and description of the instruments included and their use. Maintenance of instruments. Polishing instruments and rotary instruments. Selection of instruments and their use. Maintenance of instruments, use of brushed rubber cups, etc. The procedures of oral inspection and prophylaxis. Natural and artificial prophylaxis, self cleansing, food, tooth brushing techniques, and additional cleansing methods. Instructing the patient in personal and oral hygiene. Practical instruction in the use of scaling and polishing of some of more advance periodontal conditions which are treatment by the Dental surgeon.

G. PREVENTION 30

- G1. Plaque control
  - G1.1 Disclosure of plaque.
  - G1.2 Dental Brushes of various types and technique of Brushing and timings.
  - G1.3 Inter Dental cleaning with floss.
- G2. Chemical plaque control.
  - G2.1 Chlorhexidene Mouth washes.
  - G2.2 Fluoridation (topical application of fluorides)
  - G2.3 Identification of caries and proper referred to Dental surgery.
  - G2.4 Fissure sealants
  - G2.5 Oral lesions.
  - G3. School visits for dental health education

### **RECOMMENDED BOOKS**

- 1. Peterson's = Clinical Dental Hygiene C.V. Mosby Co.
- 2. Steel P.F. Dimensions of Dental Hygiene
- 3. Wilkins E.M Clinical Practice of Dental Hygienist, Lea of Febiger.
- 4. Pattison A and Behrans J The Detection and Removal of Calculus Preston Publishing.
- 5. Clinical Practice of the Dental Hygienist Esther M. Wilkins
- 6. Dental Radiography, Principle and Techniques by Joen Lannucci Harin

#### REFERENCE BOOKS

- 1. Burket's Oral Medicine, Diagnosis and Treatment by Martin S. Greenberg
- 2. Dental Anatomy, Physiology and Occlusion by Wheeler's
- 3. Atlas of Operative Dentistry Pre-clinical and clinical procedure by Joseph R. Evans

COURSE TITLE: DENTAL PATHOLOGY & PROCEDURE AND

CLINICAL PRACTICE

**MARKS** 

STUDY HOURS: 60+160 THEORY 120
PAPER: 02 PRACTICAL: 30
TERM: 4<sup>th</sup> TIME : 03HRS

# **COURSE CONTENTS STUDY HOURS**

(Theory +Practical)

# A. PLAQUE, CALCULUS, STAINS

6+9

Plaque formation, composition calcubs, composition, type significance, stain, Definition Extri, intrinsic stains. Indices, oral hygiene index. Plaque index.

#### B. CHRONIC PERIODONTAL DIESEASE

9+9

Classification of gingival of periodontal condition chronic periodontal disease. Epidemiology of periodontal disease. Privation Juerib periodon chronic deoqumative gingivitis.

# C. ACUTE GINGIVAL AND PEROIDONTAL DISEASE AND OTHER DISEASES OF ORAL MUCOSA

9+10

Acute ulcerative gingivitis. Cancrumoris. Acute herpetic gingivo stomalitis, acute non-specific gingivitis, periodontal abscesses; stomatitis Aphthous ulceration, candiasis cold sores oral keralosis, oral tumour.

#### D. Dental ABNORMALITIES

3+2

Attrition Abrasion Erosion, Developmental abnormalities.

#### E. RESTORATIVE DENTISTRY

12+12

- E1. Knowledge of the restoration of teeth by various fillings in lays crowns and bridges.
- E2. Root canal therapy and apicoectomy.
- E3. Treatment therapy and apicoectomy.
- E4. Treatment of periodontal disease.
- E5. Prosthetic (Practical and full denture and their care including general understanding of the role of Dental technician.
- E6. Knowledge of surgical stages of the above procedures.

### F. ORAL AND MAXILLO-FACIAL SURGERY

12+12

- F1. Minor oral surgery, extraction of teeth, surgical removal of teeth and other oral surgical procedures. Pre and opost operative care and instruction.
- F2. Maxilla facial surgery: Oral diseases requiring major surgery, large systs, tumours including maxilla facial injuries and their treatment. Pre and postoperative care and instruction.
- F3. Identification, care and maintenance of instruments, applicances and apparatus used in minor and major oral maxilla facial surgery.
- F4. Usage of instruments in different surgical operations.

G.	Care a G1. Ment G2. Geria G3. Nerv G4. Child G5. Here  HEAI Genera H1. Haza H2. Fire I H3. Surge H4. First	ous patients.non-cooperative patients.	6+6 9+12
	H7. Haza	s bola tile and inflammable material/ medicines. rds of electrostatic current, diathermy, electro cautery coagulation in	
I.	opera PRAC'	TICAL FOR DINTAL HYGIENIST	94
	<ul> <li>I1.</li> <li>I2.</li> <li>I3.</li> <li>I4.</li> <li>I5.</li> <li>I6.</li> <li>I7.</li> <li>I8.</li> <li>I9.</li> <li>I10.</li> <li>I11.</li> <li>I12.</li> <li>I13.</li> <li>I14.</li> <li>I15.</li> </ul>	Dental Surgery and its various components.  Dental chair and unit  12.1 Function / operation.  12.2 Maintenance.  12.3 Common hazards / how to coupe up.  Sterilization  13.1 Idea  13.2 Methods of sterilization  13.3 Physical.  13.4 Chemical.  Auto claving  (1-week duty for each student in Operation Theatre)  Identification of various Dental instruments and their assignments on trolle  Examination instruments  Recording of data.  Scaling instrument and their arrangement on dental tray / trolley.  18.1 Use of Model  Polishing instruments and equipment.  19.1 Slow and High speed hand pieces.  19.2 Polishing materials  Filling instruments  111.1 Disposable, Burs FG, slow speeq, Stones, polishing cups etc.  Endo-dentonc Instruments.  Dental Materials in general.  Minor oral surgery instruments, arrangement & stitching armamentarim.  Scaling procedure.  115.1 Manual scaling	ey.
		<ul> <li>Invalual scaling</li> <li>Invalual</li></ul>	

- I15.5 Proper positing of patient with respect to operator and operation.
- I15.6 Procedure.
- I16. Ultra sonic scalar and scaling. (35 cases to be completed)
  - I16.1 Introduction to machine indication and contra indication with respect to types of machine
  - I16.2 Procedures.
- I17. Gingival dressing materials with respect to gingival packs.
- I18. Polishing procedure.
- I19. Patients requiring special attention.
  - I19.1 Physically Handicapped.
  - I19.2 Mentally handicapped casws.
  - I19.3 Orthodontics.
  - I19.4 Oral surgery Attendance to O.T.

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