GURUKUL EDUCATIONAL AND RESEARCH INSTITUTE



<u>Syllabus</u>

DURATION:- 2 YEARS

<u>CERTIFICATE IN DENTAL OPERATION ROOM ASSISTANT</u> (1ST YEAR)

Syllabus basic course for DORA:

- a. Florence nightingale's basis of nursing care
- b. Tour and upkeep of the dental center, operatory and various departments
- c. Operatory discipline and discipline of the patient
- d. Admission procedure to MI room and wards
- e. Manipulation of stretcher cases
- f. Basic trauma life support

g. Anatomy:

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- Tissues of the body
- Musculoskeletal system of the head and neck
- Circulatory, respiratory and nervous system
- Skin and organs of special senses (eyes, ears, nose and tongue)

h. Physiology:

- Circulatory system Digestive system
- Respiratory system
- Endocrine system
- Renal function
- i. Elementarymicrobiology
- j. First aid and bandaging
- k. Basic life support, CPR

I. Asphyxia

m. Shock

n. sterilization, disinfection and methods for control of spread of disease

o. Basic computer training for two weeks

p. Introduction to computers, computer hardware (CPU), input device, storage media, output devices, printer and other peripherals.

q. Computer software - windows (introduction)

r. Application packages: MS dos and windows 2000, MS word, power point, excel and access i. introductory class on other packages ii. security

s. introductory class on use of computers in hospital

II. Syllabus main course for DORA:

481 ORAL ANATOMY AND PHYSIOLOGY (ELEMENTARY)

- 1. Bones of the skull, maxilla and mandible
- 2. Oral cavity: Lips, tongue, pharynx and teeth
- 3. Structure of teeth and surrounding tissue
- 4. Dentition: Temporary and permanent
- 5. Nerve and blood supply of teeth and other soft tissue of the oral cavity
- 6. Muscles of mastication and facial expression
- 7. Saliva and control of excessive secretion in dental surgery
- 8. Blood: RBC, WBC, Plasma
- 9. Blood coagulation: Bleeding and clotting time and blood groups
- Disease of teeth and gums (Elementary)
- 1. Dental Caries
- 2. Pulp disease, alveolar abscess and cellulites

- 3. Periodontal diseases, gingivitis / periodontitis
- 4. Attrition, abrasion, erosion, fluorosis of teeth

482 DISEASE OF CONCERN IN DENTAL PRACTICE (COMMUNICABLE)

- 1. Aids
- 2. Hepatitis

483 MATERIAMEDICA

- 1. Materials / drugs and their uses in dental surgeries abtundants and astringents
- 2. Preparation of solution in different percentages used in dental surgery
- 3. Antiseptics and mouth washes
- Dental surgery routine
- 1. Duties of DORA
- 2. Personal hygiene and reception of patient
- 3. Surgery upkeep and maintenance
- 4. Infection control in dental practice

5. Sterilization of instruments, trays, dressings and various other items used in dental surgery. Asepsis and antiseptic methods used

- 6. Care of patients in shock and syncope in dental chair
- 7. Operation theatre technique and present concept in assistance
- 8. Preparation of patient for general and local anesthesia (pre medication and after care)
- 9. Preparation of pathological specimen from the mouth for dental museum / lab investigation
- 10. Dental emergencies and their management
- 11. Home care after extraction, filling and denture insertion

- 12. Oral hygiene and brushing technique
- 13. First aid management and transportation of maxillofacial injury cases

14. Layout of instrument trollys for - Surgical extractin of teeth - Alveolectomies and epicectamy - Fracture jaws - Endodontics - Gingivectomy, mucoperiosteal flaps - Denture work

CERTIFICATE IN DENTAL OPERATION ROOM ASSISTANT

2ND YEAR)



- 1. X-ray machine, its component and maintenance PCH INSTITUTE.
- 2. X-ray film, method of exposure, developing and fixing
- 3. Hazarts of X-ray radiation and methods of prevention
- 4. Dental radiography dental films their mounting and records keeping

485 DENTAL LAB PROCEDURE

- 1. Dental materials and their manipulation: restorative materials, impression materials and acrylic resins
- 2. Various types of fixed and removable or the appliances used
- 3. Materials used in maxillofacial and surgical prosthesis

486 MAXILLOFACIAL SURGERY

1. Fracture mandible and maxilla – main characteristic

2. Maintenance of oral hygiene in fracture jaw cases and periodical attendance of maxillofacial injury cases during post op period in ward

3. Nutrition, feeding and transportation of fracture jaw cases

487 DENTAL EQUIPMENT AND STORES

- 1. Recognition and knowledge of various dental equipment and stores used in dental establishments
- 2. Organization of dental stores, storage, accounting and issue of dental stores
- 3. Handling and maintenance of dental items
- 4. Assembly and minor repair to dental equipment
- 5. Poisonous drugs storage and labeling: short life items and their care, turnover

Dental documentation and office procedures

- 1. Knowledge about layout and upkeep of waiting rooms
- 2. Registration of cases and scheduling of appointment.
- 3. Dental treatment record maintenance and abbreviations for recording treatment.
- 4. Dental statistics including collection of dental health information and its

communication.

Dental jurisprudence and ethics

- History of dentistry.
- Professional ethics
- Legal implication in dental practice

