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COURSE OUTCOMES

Suraram 'X' Roads, Quthbullapur, Hyderabad - 500 055. Phone: 7997555544

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COURSE OUTCOMES OF BDS AS PER DCI REGULATIONS

1. HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY & MEDICAL GENETICS

a) KNOWLEDGE & UNDERSTANDING:

At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is Expected to:

- 1. Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.
- 2. Know the anatomical basis of disease and injury.
- 3. Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.
- 4. Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.
- 5. Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.
- 6. Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.
- 7. Know the anatomy of cardio-pulmonary resuscitation.

b) SKILLS

- 1. To locate various structures of the body and to mark the topography of the living anatomy.
- 2. To identify various tissues under microscope.
- 3. To identify the features in radiographs and modern imaging techniques.
- 4. To detect various congenital abnormalities.

2. HUMAN PHYSIOLOGY

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a) KNOWLEDGE

At the end of the course, the student will be able to:

- 1. Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.
- 2. Assess the relative contribution of each organ system towards the maintenance of the milieu interior.
- 3. List the physiological principles underlying the pathogenesis and treatment of disease.

b) SKILLS

At the end of the course, the student shall be able to:

- 1. Conduct experiments designed for the study of physiological phenomena.
- 2. Interprete experimental and investigative data
- 3. Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

c) INTEGRATION

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

BIOCHEMISTRY

The major aim is to provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice. The contents should be organised to build on the already existing information available to the students in the pre-university stage and reorienting. A mere rehash should be avoided.

The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. Details on structure need not be emphasized

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Discussion on metabolic processes should put emphasis on the overall change, interdependence and molecular turnover. While details of the steps may be given, the student should not be expected to memorise them. An introduction to biochemical genetics and molecular biology is a must but details should be avoided. The exposure to antivitamins, antimetabolites and enzyme inhibitors at this stage, will provide a basis for the future study of medical subjects. An overview of metabolic regulation is to be taught by covering hormonal action, second messengers and regulation of enzyme activities. Medical aspects of biochemistry should avoid describing innumerable functional tests, most of which are not in vogue. Cataloguing genetic disorders under each head of metabolism is unnecessary. A few examples which correlate genotype change to functional changes should be adequate.

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

At the end of the course the student would be able to acquire a useful core of information, which can be retained for a long time. Typical acid tests can be used to determine what is to be taught or what is to be learnt. A few examples are given below.

- 1. Need not know the structure of cholesterol. Should know why it cannot be carried free in plasma.
- 2. Mutarotation should not be taught. Student should know why amylase will not hydrolyse cellulose.
- 3. Need not know the details of alpha helix and beta pleats in proteins. Should know why haemoglobin is globular and keratin is fibrous.
- 4. Need not know mechanism of oxidative phosphorylation. Should know more than 90 % of ATP is formed by this process.
- 5. Need not know details of the conversion of pepsinogen to pepsin. Should know hydrochloric acid cannot break a peptide bond at room temperature.
- 6. Need not remember the steps of glycogenesis. Should know that excess intake of carbohydrate will not increase glycogen level in liver or muscle.
- 7. Need not know about urea or cretinine clearance tests. Should know the basis of increase of urea and creatinine in blood in renal insufficiency.

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- 8. Need not know the structure of insulin. Should know why insulin level in circulation is normal in most cases of maturity onset diabetes.
- 9. Need not know the structural details of ATP. Should know why about 10 g of ATP in the body at any given time meets all the energy needs.
- 10. Need not know the mechanism of action of prolylhydroxylase. Should know why the gum bleeds in scurvy.
- 11. Need not know the structure of Vitamin K. Should know the basis of internal bleeding arising due to its deficiency.
- 12. Need not remember the structure of HMGCoA. Should know why it does not lead to increased cholesterol synthesis in starvation.

3. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

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.

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4. GENERAL PATHOLOGY

AIM:

At the end of the course the student should be competent to:

Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

OBJECTIVES:

Enabling the student

- 1. To demonstrate and apply basic facts, concepts and theories in the field of Pathology.
- 2. To recognize and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes.
- 3. To Integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.
- 4. To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.
- 5. To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.

MICROBIOLOGY

A. KNOWLEDGE AND UNDERSTANDING

At the end of the Microbiology course the student is expected to:

- 1. Understand the basics of various branches of microbiology and able to apply the knowledge relevantly.
- 2. Apply the knowledge gained in related medical subjects like General Medicine and General Surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Pedodontics, Conservative Dentistry and Oral medicine in higher classes.
- 3. Understand and practice various methods of Sterilisation and disinfection in dental clinics.
- 4. Have a sound understanding of various infectious diseases and lesions in the oral cavity.

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A. SKILLS

- 1. Student should have acquired the skill to diagnose, differentiate various oral lesions.
- 2. Should be able to select, collect and transport clinical specimens to the laboratory.
- 3. Should be able to carry out proper aseptic procedures in the dental clinic.

5. GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

OBJECTIVES:

At the end of the course the student shall be able to:

- i) Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.
- ii) List the indications, contraindications; interactions, and adverse reactions of commonly used drugs with reason.
- iii) Tailor the use of appropriate drugs in disease with consideration to its cost, efficacy, safety for individual and mass therapy needs.
- iv) Indicate special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immuno compromised patients.
- v) Integrate the rational drug therapy in clinical pharmacology.
- vi) Indicate the principles underlying the concepts of "Essential drugs".

SKILLS:

At the end of the course the student shall be able to:

- 1) Prescribe drugs for common dental and medical ailments.
- 2) To appreciate adverse reactions and drug interactions of commonly used drugs.
- 3) Observe experiments designed for study of effects of drugs.
- 4) Critically evaluate drug formulations and be able to interpret the clinical pharmacology of

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marketed preparations commonly used in dentistry.

5) INTEGRATION: Practical knowledge of use of drugs in clinical practice will be acquired through integrated teaching with clinical departments.

6. DENTAL MATERIALS

OBJECTIVES:

To understand the evolution and development of science of dental material.

To explain purpose of course in dental materials to personnels concerned with the profession of the dentistry. Knowledge of physical and chemical properties. Knowledge of biomechanical requirements of particular restorative procedure. An intelligent compromise of the conflicting as well as co-ordinating factors into the desired Ernest. Laying down standards or specifications of various materials to guide to manufacturers as well as to help professionals.

Search for newer and better materials which may answer our requirements with greater satisfaction. To understand and evaluate the claims made by manufactures of dental materials

NEEDS FOR THE COURSE:

The profession has to rise from an art to a science, , the need for the dentist to possess adequate knowledge of materials to exercises his best through knowledge of properties of different types of materials. The growing concern of health hazards due to mercury toxicity, inhalation of certain vapour or dust materials, irritations and allergic reaction to skin due to contact of materials. Materials causing irritation of oral tissues, pH of restorative materials causing inflammation and necrosis of pulp which is a cause for the dentist to posses wider knowledge of physical, chemical and biological properties of materials being used. For the protection for the patient and his own protection certain criteria of selection are provided that will enable the dentist to discriminate between facts and propaganda, which will make a material biologically accept.

7. PRE CLINICAL CONSERVATIVE DENTISTRY LABORATORY EXERCISES

- 1. Identification and study of handcutting instruments chisles, gingival margin trimmers, excavators and hatchet.
- 2. Identification and use of rotary cutting instruments in contra angle hand pieces burs (Micromotor)

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- 3. Preparation class I and extended class I and class II and MOD's and class V amounting to 10 exercises in plaster models.
- 4. 10 exercises in mounted extracted teeth of following class I, 4 in number class I extended cavities 2, class II 4 in number and Class V 2 in number. Cavity preparation base application matrix and wedge placement restoration with amalgam.
- 5. Exercises on phantom head models which includes cavity preparation base and varnish application matrix and wedge placement followed by amalgam restoration.

Class I 5

Class I with extension 2

Class II 10

Class II Mods 2

Class V and III forglass ionmers 4

Class V for amalgam 2

- 6. Polishing of above restorations.
- 7. Demonstration of Class III and Class V cavity preparation. For composites on extracted tooth completing the restoration.
- 8. Polishing and finishing of the restoration of composites.
- 9. Identification and manipulation of varnish bases like Zinc Phosphate, Poly carboxylate, Glass Ionomers, Zinc Oxide, Euginol cements.
- 10. Identification and manipulation of various matrices, tooth separators and materials like composites and modified glassionomer cements.
- 11. Cast Restoration
- 1. Preparation of Class II inlay cavity

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- 2. Fabrication of wax pattern
- 3. Sprue for inner attachment investing
- 4. Investing of wax pattern
- 5. Finishing and cementing of class II inlay in extracted tooth.
- 12. Endodontics
- 1. Identification of basic endodontic instruments
- 2. Cornal access cavity preparation on extracted. Upper central incisiors
- 3. Determination of working length.
- 4. Biomechanical preparation of root canal space of central incisor
- 5. Obfuration of root canal spaces. Absens of cornal access cavity.
- 6. Closure of acess cavity

8. ORAL PATHOLOGY & ORAL MICROBIOLOGY

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:

1. Microscopic study of common lesions affecting oral tissues through microscopic slides & projection slides.

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- 2. Study of the disease process by surgical specimens.
- 3. Study of teeth anomalies/polymorphisms through tooth specimens & plaster casts.
- 4. Microscopic study of plaque pathogens.
- 5. Study of haematological preparations (blood films) of anaemias & leukemias.
- 6. Basic exercises in Forensic Odontology such as histological methods of age estimation and appearance of teeth in injuries.

9. GENERAL MEDICINE

Special emphasis should be given throughout on the importance of various diseases as applicable to dentistry.

- 1. Special precautions/ contraindication of anaesthesia and various dental procedures in different systemic diseases.
- 2. Oral manifestations of systemic diseases.
- 3. Medical emergencies in dental practice.

A dental student should be taught in such a manner he/she is able to record the arterial pulse, blood pressure and be capable of suspecting by sight and superficial examination of the body - diseases of the heart, lungs, kidneys, blood etc. He should be capable of handling medical emergencies encountered in dental practice.

10. GENERAL SURGERY

To acquaint the student with various diseases, which may require surgical expertise and to train the student to analyze the history and be able to do a thorough physical examination of the patient. The diseases as related to head and neck region are to be given due importance, at the same time other relevant surgical problems are also to be addressed. At the end of one year of study the student should have a good theoretical knowledge of various ailments, and be practically trained to differentiate benign and malignant diseases and be able to decide which patient requires further evaluation.

11. CONSERVATIVE DENTISTRY AND ENDODONTICS

A). Knowledge and under standing:

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The graduate should acquire the following knowledge during the period of training.

- i. To diagnose and treat simple restorative work for teeth.
- ii. To gain knowledge about aesthetic restorative material and to translate the same to patients needs.
- iii. To gain the knowledge about endodontic treatment on the basis of scientific foundation.
- iv. To carry out simple endodontic treatment.
- v. To carry out simple luexation of tooth and its treatment and to provide emergency endodontic treatment.

SKILLS:

He should attain following skills necessary for practice of dentistry

- i) To use medium and high speed hand pieces to carry out restorative work.
- ii) Poses the skills to use and familiarise endodontic instruments and materials needed for carrying out simple endodontic treatment.
- iii) To achieve the skills to translate patients esthetic needs along with function.

ATTITUDES:

- i). Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- ii). Willingness to participate in CDE programme to update the knowledge and professional skill from time to time.
- iii). To help and participate in the implementation of the national oral health policy.
- iv). He should be able to motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasise which will help to maintain the restorative work and prevent future damage.

12. ORAL & MAXILLOFACIAL SURGERY

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a) Knowledge & Understanding:

At the end of the course and the clinical training the graduate is expected to -

- 1. Able to apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problem.
- 2. Able to diagnose, manage and treat (understand the principles of treatment of) patients with oral surgical problems.
- 3. Knowledge of range of surgical treatments.
- 4. Ability to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
- 5. Understand the principles of in-patient management.
- 6. Understanding of the management of major oral surgical procedures and principles involved in patient management.
- 7. Should know ethical issues and communication ability.

b) Skills:

- 1. A graduate should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner. Be able to understand requisition of various clinical and laboratory investigations and is capable of formulating differential diagnosis.
- 2. Should be competent in the extraction of teeth under both local and general anaesthesia.
- 3. Should be able to carry out certain minor oral surgical procedures under L.A. like frenectomy, alveolar procedures & biopsy etc.
- 4. Ability to assess, prevent and manage various complications during and after surgery.
- 5. Able to provide primary care and manage medical emergencies in the dental office.
- 6. Understanding of the management of major oral surgical problems and principles involved in inpatient management

13. ORAL MEDICINE AND RADIOLOGY

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AIMS:

- (1) To train the students to diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of oro-facial disorders with drugs and physical agents.
- (2) To train the students about the importance, role, use and techniques of radiographs/digital radiograph and other imaging methods in diagnosis.
- (3) The principles of the clinical and radiographic aspects of Forensic Odontology.

The syllabus in ORAL MEDICINE & RADIOLOGY is divided into two main parts.

(I) Diagnosis, Diagnostic methods and Oral Medicine (II) Oral Radiology. Again the part ONE is subdivided into three sections. (A) Diagnostic methods (B) Diagnosis and differential diagnosis (C) Oral Medicine & Therapeutics.

14. ORTHODONTICS & DENTAL ORTHOPAEDICS

COURSE OBJECTIVE:

Undergraduate programme in Orthodontics is designed to enable the qualifying dental surgeon to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures

15. PAEDIATRIC & PREVENTIVE DENTISTRY

THEORY:

- 1. INTRODUCTION TO PEDODONTICS & PREVENTIVE DENTISTRY.
- 2. GROWTH & DEVELOPMENT:
- 3. DEVELOPMENT OF OCCLUSION FROM BIRTH THROUGH ADOLESCENCE.
- 4. DENTAL ANATOMY AND HISTOLOGY:
- 5. DENTAL RADIOLOGY RELATED TO PEDODONTICS.

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- 6. ORAL SURGICAL PROCEDURES IN CHILDREN.
- 7. DENTAL CARIES:
- 8. GINGIVAL & PERIODONTAL DISEASES IN CHILDREN.
- 9. CHILD PSYCHOLOGY:
- 10. BEHAVIOUR MANAGEMENT:
- 12. PEDIATRIC ENDODONTICS
- 13. TRAUMATIC INJURIES IN CHILDREN:
- 14. PREVENTIVE & INTERCEPTIVE ORTHODONTICS:
- 15. ORAL HABITS IN CHILDREN:
- 16. DENTAL CARE OF CHILDREN WITH SPECIAL NEEDS:
- 17. CONGENITAL ABNORMALITIES IN CHILDREN:
- 18. DENTAL EMERGENCIES IN CHILDREN & THEIR MANAGEMENT.
- 19. DENTAL MATERIALS USED IN PEDIATRIC DENTISTRY.
- 20. PREVENTIVE DENTISTRY:
- 21. DENTAL HEALTH EDUCATION & SCHOOL DENTAL HEALTH PROGRAMMES.
- 22. FLUORIDES:
- 23. CASE HISTORY RECORDING:
- 24. SETTING UP OF PEDODONTIC CLINIC.
- 25. ETHICS.

B. PRACTICALS:

Following is the recommended clinical quota for under-graduate students in the subject of pediatric & preventive dentistry.

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- 1. Restorations Class I & II only: 45
- 2. Preventive measures e.g. Oral Prophylaxis 20.
- 3. Fluoride applications 10
- 4. Extractions 25
- 5. Case History Recording & Treatment Planning 10
- 6. Education & motivation of the patients using disclosing agents. Educating patients about oral

16. PUBLIC HEALTH DENTISTRY

GOAL:

To prevent and control oral diseases and promote oral health through organized community efforts

OBJECTIVES:

Knowledge:

At the conclusion of the course the student shall have a knowledge of the basis of public health, preventive dentistry, public health problems in India, Nutrition, Environment and their role in health, basics of dental statistics, epidemiological methods, National oral health policy with emphasis on oral health policy.

Skill and Attitude:

At the conclusion of the course the students shall have require at the skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding health strategies. Students should develop a positive attitude towards the problems of the society and must take responsibilities in providing health.

Communication abilities:

At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral disease

17. PERIODONTOLOGY

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OBJECTIVES:

The student shall acquire the skill to perform dental scaling ,diagnostic tests of periodontal diseases; to use the instruments for periodontal therapy and maintenance of the same.

The student shall develop attitude to impart the preventive measures namely, the prevention of periodontal diseases and prevention of the progress of the disease. The student shall also develop an attitude to perform the treatment with full aseptic precautions; shall develop an attitude to prevent iatrogenic diseases; to conserve the tooth to the maximum possible time by maintaining periodontal health and to refer the patients who require specialist's care

18. PROSTHODONTICS AND CROWN & BRIDGE

Complete Dentures

- A. Applied Anatomy and Physiology.
- B. Communicating with the patient
- C. Diagnosis and treatment planning for patients
- D. Articulators- discussion
- E. Improving the patient's denture foundation and ridge relation -an overview.
- F. Principles of Retention, Support and Stability
- G. Impressions detail.
- H. Record bases and occlusion rims- in detail.
- I. Biological consideration in jaw relation & jaw movements craniomandibular relations.
- J. Relating the patient to the articulator.
- K. Recording maxillo mandibular relation.
- L. Tooth selection and arrangement.
- .N. Trial dentures.



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- O. Laboratory procedures.
- .P. Denture insertion.
- 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.
- V. Immediate complete dentures construction procedure- discuss in brief.
- W. The single complete denture- discuss in brief.
- X. Overdentures denture- discuss in brief.
- Y. 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. Indications, contraindications
- 8. Maintenance Phase
- 9. Oral Implantology
- 10. Ethics

Removable Flexible Dentures

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- 1. Introduction
- 2. Classification.
- 3. Examination, Diagnosis & Treatment planning & evaluation of diagnostic data.
- 4. Components of a removable partial denture.
- 5. Components of a Removable Partial Denture.
- 6. Principles of Removable Partial Denture Design.
- 7. Survey and design in brief.
- 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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- 2. Diagnosis (of the particular situation /patient selection /treatment planning)
- 3. Types / Classification
- 4. Materials
- 5. Methodology Lab /Clinical
- 6. Advantages & disadvantages
- 7. Indications, contraindications
- 8. Maintenance Phase

Fixed Partial Dentures

Topics 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

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- 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

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COURSE OUTCOMES OF MDS AS PER DCI REGULATIONS

1.PROSTHODONTICS AND CROWN & BRIDGE

KNOWLEDGE:

The candidate should possess knowledge of applied basic and systemic medical sciences.

- On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Bio-medical & Biological Principles
- The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same.
- Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.
- Ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion.
- Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.
- Understanding of all the applied aspects of achieving physical, psychological well-being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient.
- Ability to diagnose and plan treatment for patients requiring Prosthodontic therapy
- · Ability to read and interpret radiographs, and other investigations for the purpose of

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diagnosis and treatment planning.

- The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology
- Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetics, and biomaterials, craniofacial disorders, problems of psychogenic origin.
- Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- Should have ability to diagnose failed restoration and provide prosthodontic therapy and after care.
- · Should have essential knowledge on ethics, laws, and Jurisprudence and Forensic Odontology in Prosthodontics.
- Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and first line management of aspiration of prosthesis
- · Should identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialists and perform interdisciplinary case management.
- To advice regarding case management involving surgical and interim treatment
- Should be competent in specialization of team management in craniofacial prosthesis design.
- To have adequate acquired knowledge, and understanding of applied basic, and systemic medical science knowledge in general and in particular to head and neck regions.
- Should attend continuing education programmes, seminars and conferences related to Prosthodontics, thus updating himself/herself.

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- To teach and guide his/her team, colleagues and other students.
- Should be able to use information technology tools and carry out research both in basic and clinical areas, with the aim of publishing his/her work and presenting his/her work at various scientific forums.
- Should have an essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risk of transmission of potential communicable and transmissible infections like Hepatitis and HIV.
- Should have an ability to plan and establish Prosthodontics clinic/hospital teaching department and practice management.
- Should have a sound knowledge (of the applications in pharmacology, effects of drugs on oral tissues and systems of body and in medically compromised patients.

SKILLS:

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- The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute it.
- To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry.
- The candidate should be able to restore lost functions of stomatognathic system like mastication, speech, appearance and psychological comforts by understanding biological, biomedical, biomedical, bioengineering principles and systemic conditions of the patients to provide quality health care in the craniofacial regions.
- The candidate should be able to demonstrate good interpersonal, communication skills and team approach in interdisciplinary care by interacting with other specialties including medical specialty for planned team management of patients for craniofacial & oral acquired and congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins.
- Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach.

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- Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings
- Should be able to critically appraise articles published and understand various components of different types of articles and be able to gather the weight of evidence from the same
- To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy.
- To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory all procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics Prosthodontics.
- To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures
- To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontics.

ATTITUDES:

- To adopt ethical principles in Prosthodontic practice, Professional honesty, credibility and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- Should be willing to share the knowledge and clinical experience with professional colleagues.
- Should develop an attitude towards quality, excellence, non-compromising in treatment.
- Should be able to self-evaluate, reflect and improve on their own.
- Should pursue research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.
- Should be able to demonstrate evidence-based practice while handling cases
- Should be willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which are in patient's best interest.
- Should respect patient's rights and privileges, including patient's right to information and right to seek second opinion.

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COMMUNICATIVE ABILITIES:

- To develop communication skills, in particular and to explain treatment options available in the management.
- To provide leadership and get the best out of his / her group in a congenial working atmosphere.
- Should be able to communicate in simple understandable language with the patient and explain the principles of prosthodontics to the patient. He/She should be able to guide and counsel the patient with regard to various treatment modalities available.
- To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment. Should demonstrate good explanatory and demonstrating ability as a teacher in order to facilitate learning among students

2. PERIODONTOLOGY:

A) KNOWLEDGE:

Discuss historical perspective to advancement in the subject proper and related topics.

- Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population
- Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology
- Describe various preventive periodontal measures
- Describe various treatment modalities of periodontal disease from historical aspect to currently available ones
- Describe interrelationship between periodontal disease and various systemic conditions
- Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it
- Identify rarities in periodontal disease and environmental/Emotional determinates in a given case
- Recognize conditions that may be outside the area of his/her Speciality/ competence and refer them to an appropriate Specialist

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- Decide regarding non-surgical or surgical management of the case
- Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.
- Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals
- Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated
- Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise)
- Shall develop knowledge, skill in the science and practice of Oral Implantology
- Shall develop teaching skill in the field of Periodontology and Oral Implantology
- Principals of Surgery and Medical Emergencies.
- To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

B) SKILLS:

- Take a proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis
- Effective motivation and education regarding periodontal disease maintenance after the treatment
- Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment
- Perform both non-surgical and surgical procedures independently
- Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.
- Human values, ethical practice to communication abilities

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- Adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered. Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, Be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed, Respect patients rights and privileges, including patients right to information and right to seek a second opinion.
- To learn the principal of lip repositioning and perio esthetics surgeries

3. ORAL AND MAXILLOFACIAL SURGERY

Knowledge:

- To have acquired adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature
- To have understood the general surgical principles like pre and post surgical management, particularly evaluation, post surgical care, fluid and electrolyte management, blood transfusion and post surgical pain management.
- Understanding of basic sciences relevant to practice of oral and maxillofacial surgery
- Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.
- Essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

Skills:

- To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpret them and to arrive at a reasonable diagnosis about the surgical condition.
- To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically the problems of the oral and Maxillofacial and the related area.

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• Capable of providing care for maxillofacial surgery patients.

Attitude:

- Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
- Willing to share the knowledge and clinical experience with professional colleagues.
- Willing to adopt new techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient
- Respect patient right and privileges, including patients right to information and right to seek a second opinion.
- Develop attitude to seek opinion from an allied medical and dental specialists as and when required.

Communication Skills:

- Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time
- Develop the ability to communicate with professional colleagues.
- Develop ability to teach undergraduates.

4. CONSERVATIVE DENTISTRY AND ENDODONTICS

Knowledge:

At the end of 36 months of training, the candidates should be able to:

• Describe etiology, pathophysiology, periapical diagnosis and management of common restorative situations, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathosis including periodontal situations.

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- Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics.
- Identify social, economic, environmental and emotional determinants in a given case or community and take them into account for planning and execution at individual and community level.
- Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.
- Update himself by self-study and by attending basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry-Endodontics-Dental Materials and Restorative Dentistry.
- Ability to teach/guide, colleagues and other students. Use information technology tools and carry out
 research both basic and clinical with the aim of his publishing his work and presenting the same at scientific
 platform.

Skills:

- Take proper chair side history, examine the patient and perform medical and dental diagnostic procedures as well as perform relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post operative care of the patient.
- Perform all levels of restorative work, surgical and non-surgical Endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition.
- Provide basic life saving support in emergency situations.
- Manage acute pulpal and pulpo periodontal situations.
- Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.
- Should have proper knowledge of sterilization procedures Human Values, Ethical Practice and Communication Abilities

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- Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics.
- Professional honesty and integrity should be the top priority.
- Dental care has to be provided regardless of social status, caste, creed or religion of the patient.
- Develop communication skills in particular to explain various options available for management and to obtain a true informed consent from the patient.
- · Apply high moral and ethical standards while carrying on human or animal research.
- He/She shall not carry out any heroic procedures and must know his limitations in performing all aspects of restorative dentistry including Endodontics. Ask for help from colleagues or seniors when required without hesitation.
- · Respect patient's rights and privileges including patients right to information

5. ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

Knowledge:

- 1. The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment
- 2. The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems
- 3. Various treatment modalities in Orthodontics preventive, interceptive and corrective.
- 4. Basic sciences relevant to the practice of Orthodontics
- 5. Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro facial deformities
- 6. Factors affecting the long-range stability of orthodontic correction and their management
- 7. Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases.

Skills:

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- 1. To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dento-facial deformities.
- 2. To be competent to fabricate and manage the most appropriate appliance intra or extra oral, removable or fixed, mechanical or functional, and active or passive for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of oro-facial deformities.

Attitude:

- 1. Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.
- 2. Professional honesty and integrity are to be fostered
- 3. Treatment care is to be delivered irrespective of the social status, cast, creed and religion of the patients.
- 4. Willingness to share the knowledge and clinical experience with professional colleagues
- 5. Willingness to adopt, after a critical assessment, new methods and techniques of orthodontic management developed from time to time based on scientific research, which are in the best interest of the patient
- 6. Respect patients' rights and privileges, including patients right to information and right to seek a second opinion
- 7. Develop attitude to seek opinion from allied medical and dental specialists as and when required Communication Skills:
- 1. Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dento-facial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.
- 2. Develop the ability to communicate with professional colleagues, in Orthodontics or other specialties through various media like correspondence, Internet, e-video, conference, etc. to render the best possible treatment



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