



MNR DENTAL COLLEGE AND HOSPITAL

“NAAC ACCREDITED”

(Recognized by MH&FW, Govt. of India & Affiliated to KNR University of Health Sciences)

MNR Nagar, Narsapur Road, Fasalwadi, Sangareddy 502294

LEARNING OUTCOMES - BDS



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E-mail: mnrdc@mnrindia.org; Website: www.mnrindia.org

BDS PROGRAMME OUTCOMES

- Po1 - Ability to identify the normal structures of oral cavity, Differentiating the primary and permanent teeth, growth and development of jaws.
- Po2 - Competent to diagnose the common dental and oral diseases, malocclusion, tobacco associated oral lesions, and potentially malignant and malignant conditions.
- Po3 - Competent in taking intraoral radiographs and interpret the radiographic findings.
- Po4 - Ability to use the proper instruments for a given condition.
- Po5 - Knowledge and skill in using dental materials and drugs.
- Po6 - Providing full mouth rehabilitation care anesthetic dental care
- Po7 - Providing dental care for children
- Po8 - Providing preventive dental care and dental care for medically compromised patients
- Po9 - Knowledge about recent advances in dentistry
- Po10 - The ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values as apart of individual and professional ethics
- Po11 - Communication, interpersonal and managerial skills
- Po12 - Skills of oral health promotion including primary and secondary prevention, and tobacco habit cessation counselling

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HUMAN ANATOMY, HISTOLOGY and EMBRYOLOGY

The students should gain the knowledge and insight into the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures, so that relevant anatomical & scientific foundations are laid down for the clinical application.

HUMAN PHYSIOLOGY, BIOCHEMISTRY and NUTRITION

Aims is to provide the student comprehensive knowledge of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease. The major aim of biochemistry is to provide a sound knowledge on the biochemical basis of life processes relevant to the human system and to dental practice.

GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

The broad goal of teaching undergraduate students in pharmacology is to inculcate rational and scientific basis of therapeutics keeping in view of dental curriculum and profession.

DENTAL MATERIALS

CO1 Dental student interpret the Biocompatibility and type of biological responses that materials cause and the anatomic aspects of the oral cavity that influence or modify the biological response to materials

CO2 Dental student acquire knowledge of the composition, properties, manipulative variables, and recent advances of restorative, preventive, esthetic and surgical dental materials.

CO3 Dental student develop the ability to use dental materials which will include the manipulation through laboratory and clinical exercises.

GENERAL MEDICINE

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

1. Special precautions /contraindications of anesthesia and various dental procedures in different systemic diseases.
2. Oral manifestations of systemic diseases.
3. Handling Medical emergencies in dental practice.

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DENTAL ANATOMY & DENTAL HISTOLOGY

CO1- Student should be able to appreciate the morphological features of all primary and permanent teeth , its chronology, sequence of eruption, occlusion and variations in morphology

CO2- Students should have an understanding about the development of orofacial structures in particular developmental processes of teeth with applied aspects

CO3- Students should know the structures and functions, macroscopic and microscopic features and various properties of orofacial tissues. And also, should know the physiologic aging and the clinical considerations of orofacial tissues

CO4- Students should have basic understanding about laboratory techniques involved in routine soft tissue and hard tissue processing



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DENTAL MATERIALS

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CO2- Dental student acquire knowledge of the composition, properties, manipulative variables, and recent advances of restorative, preventive, esthetic and surgical dental materials

CO3- Dental student develop the ability to use dental materials which will include the manipulation through laboratory and clinical exercises

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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 head and neck region. Practically trained to differentiate benign and malignant diseases

CONSERVATIVE DENTISTRY AND ENDODONTICS

CO1 Acquire adequate knowledge, necessary skill, and attitude to carry out dental practice involving prevention, diagnosis and treatment of anomalies and diseases of teeth and associated hard and soft tissues

CO2 Apply basic knowledge of anatomy, physiology and biomechanical properties of teeth, biomaterials, and associated tissues for effective practice of Dentistry

CO3 Understand and Demonstrate the etiology, pathophysiology and clinical manifestation of diseases of the teeth and adjacent hard and soft tissues.

CO4 Acquire basic knowledge of etiology, biology, prevention, interception, and management of carious and non-carious lesion of teeth.

CO5 Choose various methods to identify the disease process at different stages and determine the treatment modalities

CO6 Define and Classify disease of teeth and adjacent tissues and plan out the treatment preferences

CO7 Communicate effectively and sensitively with patients and public to bring about satisfaction and trust.

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ORAL PATHOLOGY AND MICROBIOLOGY

CO1- Students attains basic knowledge on pathogenesis of oral disease and neoplasms. Diagnosis and skill to do differential diagnosis based on clinical, radiographic and histopathological features of oral diseases

CO2- Proficient understanding of the microscopic features of common lesions and ensure students have attained skills to prepare ground sections and oral smears

CO3- Attaining the knowledge of differential etiopathological processes of various diseases involving the oral cavity and also oral manifestations of different systemic disorders

CO4- To be able to discuss oro-facial anomalies, polymorphisms with the help of specimens and plaster casts

CO5- Understanding the concepts of forensic odontology and, to be able to do age estimation, person identification and sex determination

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ORAL AND MAXILLOFACIAL SURGERY

CO1 Be able to diagnose, manage and treat patients with basic oral surgical problems, minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, oral Implantology, should be able to provide primary care and manage medical emergencies in the dental office.

CO2 Student should be able to identify the tooth indicated for extraction

CO3 Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures

CO4 Student should be able to select the appropriate quantity of local anaesthetic agents and perform the appropriate technique of administration of LA and also able to prescribe post op medications,

CO5 Should be able to perform various types of suturing techniques and dental wiring on models

CO6 Student should be able to perform total extraction procedures and manage complications

CO7 Student will be able to perform extractions in medically compromised patients

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PERIODONTICS AND IMPLANTOLOGY

CO 1. Ability to identify anatomic features of the periodontium and the interrelated functional aspects.

CO 2. Ability to explain the etio-pathogenesis of periodontal/peri-implant diseases.

CO 3. Ability to recognize and diagnose the various forms of periodontal/peri-implant diseases.

CO 4. Apply the appropriate diagnostic technique to diagnose periodontal disease.

CO 5. Competent in interpreting the radiographic findings.

CO 6. Identify, plan and execute non-surgical and surgical periodontal treatment procedures. based on current scientific evidence to treat systemically healthy and systemically compromised patients.

CO 7. Ability to use the proper instruments for a given condition.

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ORAL MEDICINE AND RADIOLOGY

- CO1 To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
- CO2 Must have a sound knowledge, interpret various images and formulate a differential diagnosis.
- CO3 Case history taking and clinical examination.
- CO4 To execute various diagnostic procedures Demonstration of techniques of intra oral radiography (IOPA, Occlusal, and bitewing).
- CO5 Interpretation of normal radiographic anatomy and the pathology.
- CO6 Diagnosing muco-cutaneous lesions
- CO7 Diagnosing and managing bacterial, viral, and fungal oral lesions.

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PROSTHODONTICS & CROWN & BRIDGE

CO1 Diagnose and plan treatment for patients requiring a Prosthodontic therapy, Interpret a radiograph and other investigations for the purpose of diagnosis and treatment plan. Evaluate 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 esthetic, and biomaterials, craniofacial disorders, problems of psychogenic origin. Evaluate General health conditions and emergency as related to Prosthodontics treatment.

CO2 Identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.

CO3 Acquire essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risks of transmission of Hepatitis and HIV.

CO4 Restore lost functions of Stomatognathic system namely mastication, speech, appearance and psychological comforts, by understanding biological, biomedical, bioengineering principles and systemic condition of the patient to provide a quality health care of the craniofacial region

CO5 Perform clinical and Laboratory procedure with an understanding of biomaterials, tissue conditions related to the prosthesis and have competent dexterity and skill for performing clinical and laboratory procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics in Prosthodontics. Adopt new methods and techniques in prosthodontics from time to time based on scientific research, which is in patient's best interest.

CO6 Communicate in simple understandable language with the patient and explain the principles of Prosthodontics to the patient. He should be able to guide and counsel the patient with regard to various treatment modalities available. Develop the ability to communicate with professional colleagues through various media like Internet, e-mail, video conference, and etc. to render the best possible treatment



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DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY

CO1- Introduction of Pedodontics

CO2- Growth and Development

CO3- Oral Surgical Procedures in children

CO4- Caries prevention and management in children

CO5- Child psychology and Behavior management

CO6- Pediatric operative and Endodontic therapy in children

CO7- Case history, Radiology and traumatic injuries in children

CO8- Behavior and preventive orthodontic management

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ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

CO1- Able to list the indications and components, comprehend the mechanism of action and select appropriate removable orthodontic appliance in any given clinical scenario

CO2- To fabricate the components of removable orthodontic appliance using appropriate instruments and also acrylicize various removable appliances and other habit breaking appliance accurately

CO3- To clinically diagnose malocclusion and abnormal growing skeletal conditions and refer to an orthodontist

CO4- To interpret the study models, OPG, lateral cephalogram and other advanced 3D diagnostic aids pertaining to orthodontic diagnosis

CO5- To prepare pretreatment records like photographs (intraoral and extraoral), study models

CO6- Able to explain the malocclusion and treatment plan and to motivate patients to undergo orthodontic treatment

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PUBLIC HEALTH DENTISTRY

CO1 Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

CO2 Have knowledge of the organization and provision of health care in community and in the hospital service. Have knowledge of the prevalence of common dental conditions in India and community based preventive measures.

CO3 Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.

CO4 Knowledge about various commonly used dental indices

CO5 Knowledge about various instruments used for recording the indices

CO6 Recording a comprehensive case history

CO7 Accurate recordings of the scores of the various indices

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