



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

MDS PROGRAM SPECIFIC OUTCOMES



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Ph: (08455) 230675, 233333, Mobile: 8500056668, Fax: (08455)230533/230555/230699

MDS PROGRAM SPECIFIC OUTCOMES

ORAL PATHOLOGY & MICROBIOLOGY

CO 1 the post graduate must have applied knowledge in basic sciences like anatomy, histology, physiology and biochemistry.

CO2 The student also would have learnt the basics in general pathology and general microbiology along with molecular aspects involved in pathogenesis.

CO3 the post graduate would know the basic principles of biostatistics and research methodology as applied to dentistry and research.

CO4 the postgraduate has achieved higher competence in both general and special pathology dealing with the nature of oral diseases, their causes, processes and effects.

CO 5 the post graduate must have attained profound understanding on the pathogenesis of various oral diseases so that he/she can arrive at a definitive diagnosis using clinical, radiographical, histopathological findings.

CO 6 along with oral pathology the student also learns the skills in basic laboratory investigations involving hematology, microbiology and specialized histotechniques and special stains.

CO7 the student would have thorough knowledge in oral immunology and oncology along with the molecular aspects of it.

CO8 The Post Graduate Would Have Detailed Knowledge In Biopsy Procedures, Processing Of Paraffin Sections, Usage Of Microtome, Different Staining Techniques And Principles.

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ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

CO 1: To have firm knowledge of stomatognathic system and their influence on oro-facial structures causing malocclusion.

CO 2: To diagnose the etiology and evaluate clinical features, to do treatment of various malocclusions and dentofacial deformities.

CO 3: To analyse the influence of genetic, hereditary and environmental factors on oro-facial deformities, and to have sound knowledge about growth (estimation of skeletal age, dental age) and growth predictions to manage developing skeletal malocclusions.

CO 4: Able to motivate patients to undergo treatment procedures such as preventive, interceptive and corrective orthodontics.

CO 5: To apply sound biomechanical principles in various orthodontic tooth movements within the biological limits.

CO6 : To maintain pre and post treatment records of the patients, like photographs, study models, radiographs to evaluate the treatment outcome.

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CONSERVATIVE DENTISTRY AND ENDODONTICS

CO1 Demonstrate an understanding of basic sciences as relevant to conservative/restorative dentistry and Endodontics.

CO2 Perform a physical and oral examination of the patient, identify normal and abnormal functioning of various systems of the body, take proper chair side history, examine the patient and perform medical and dental diagnostic procedures; as well as perform relevant tests and interpret them to come to a reasonable diagnosis about the dental condition.

CO3 Diagnose and recognize conditions that may require multidisciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to an appropriate specialist.

CO4 Perform infection control measures in the dental clinical environment and laboratories.

CO5 Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics.

CO6 Perform all levels of restorative work including Aesthetic procedures and treatment of complicated restorative procedures.

CO7 Describe and manage etiology, pathophysiology, periapical diagnosis and management of common endodontic situations that will include contemporary management of trauma and pulpal pathosis including endodontic-periodontic considerations.

CO8 Diagnose, plan and execute challenging clinical cases requiring comprehensive management strategies using contemporary materials and techniques in the specialty of conservative dentistry and endodontics.

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PROSTHODONTICS & CROWN & BRIDGE

- CO1 Post graduate would be able to diagnose the cause of the ailment, formulate the treatment plan and communicate it with the patient to execute it.
- CO2 Examination and systematic investigation of patients requiring prosthodontics treatment along with interpretation of investigation results will be achieved by the post graduate utilization of various material.
- CO3 Age related changes and its prosthodontics treatment related to removable prosthodontics and implantology will be attained by the candidate.
- CO4 Post graduate will be able to deliver the treatment to the patients irrespective of social status caste, creed or religion by adopting ethical principals in prosthodontics practice while fostering professional honesty integrity.
- CO5 Apt implantology care will be learned and adapted in their practice in treating the patients especially geriatric patients.
- CO6 Gaining the knowledge, procedural and operative skills needed in master's degree in prosthodontics can be outlined by the post graduate.

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PAEDIATRICS & PREVENTIVE DENTISTRY

CO1 Students should be able to understand applied Anatomy, genetics, applied physiology, Applied Pathology, Nutrition, Dietic, Growth and development, cariology and fluoride.

CO2 Student will get acquainted with Dental Health Concepts, Effects of civilization and Environment, Dental Health Delivery systems, public health measures related to children along with principles of Pediatric preventive dentistry.

CO3 Students should be able to develop an attitude of Counselling in Pediatric dentistry.

CO4 Students should be able to do case history recording, outline of principles of examination, diagnosis and treatment plan.

CO5 students should be competent to treat dental diseases which are occurring in child patient.

CO6 Students should be able to manage to repair and restore the lost /tooth structure to maintain harmony between both hard and soft tissues of oral cavity and to correct oral habits, spaces and occlusal problems using removable and fixed therapy.

CO7 students should be able to manage the disabled children effectively and efficiently, tailored to needs of individual requirement and conditions.

CO8 students should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure and emerging concepts in pediatric dentistry

CO9 students should be able to develop an attitude to adopt ethical principles in all aspects of pediatric dental practice along with professional honesty and integrity.

CO10 students should be able to create a good oral health in the child with installing a positive attitude and behavior in children.

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ORAL MEDICINE & RADIOLOGY

CO1 The student would be able to exhibit a better theoretical knowledge and understanding of basic relevant sciences namely, the applied anatomy of the oro-facial region and applied aspects of basic pharmaco-therapeutics.

CO2 The student will have skilled ability for identification of normal and abnormal functioning of various systems of the body for accurate prognostic diagnosis by the student.

CO3 Student would be efficient enough to understand the basics of Applied Anatomy, Physiology, Pathology and Pharmacology for the better outcome of the subject.

CO4 The student will be able to execute diagnose & deal with diseases affecting the oro-facial region & apply high moral and ethical standards while carrying out clinical and radiographic examinations.

CO5 They would be proficient enough to understand the diagnosis and diagnostic methods, ionizing radiation, its applications in dentistry and its limitations.

CO6 They will be trained enough for diagnostic methods and its application in dentistry.

CO7 They will also be having sufficient knowledge for radiographic diagnosis, techniques involved in conventional and advanced diagnostic radiographic examination.

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ORAL & MAXILLOFACIAL SURGERY

- CO1 Student should be able to identify the tooth indicated for extraction.
- CO2 Student should be able to differentiate the primary and permanent teeth
- CO3 Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning
- 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 extraction for special children and medically compromised patients
- CO8 Student will be able to discuss about the various advanced oral surgical procedures
- CO9 Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures
- CO10 Student should be able to display effective interpersonal communication and managing skills patient care.

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PERIODONTOLOGY

- CO1 The candidate should have basic knowledge about microbiology and immunology
- CO2 The Candidate should have a wide review of the current methods and research used in studying problems in periodontal disease
- CO3 The candidate should have a basic knowledge of medical emergencies and basic life support devices.
- CO4 The candidate should have an understanding of the broad range of infectious diseases affecting the oral cavity.
- CO5 The candidate should have an understanding on clinical and biological factors to be considered in the appropriate use of antimicrobial drugs
- CO6 The candidate should have an understanding of hospital-acquired infections and its management
- CO7 The candidate should be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretations of laboratory reports.
- CO8 The candidate should have a basic knowledge on research methodology, biostatistics and be able to apply it in various research projects as well as dissertations.

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