



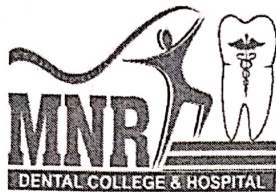
# **MNR DENTAL COLLEGE AND HOSPITAL**

**“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 –MDS**



# MNR DENTAL COLLEGE AND HOSPITAL

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

E-mail: [mnrde@mnrindia.org](mailto:mnrde@mnrindia.org); Website: [www.mnrindia.org](http://www.mnrindia.org)

## MDS PROGRAM OUTCOMES

### MDS

(Programme outcomes deciphered as per MDS Course Regulations 2017 along with amendments)

- Demonstrate understanding of basic sciences relevant to speciality;
- Describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children
- Acquire adequate skills and competence in performing various procedures as received in the speciality
- Use information technology and carry out research
- Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition;
- Acquire adequate skills and competence in performing various procedures as required in the speciality.
- To exercise empathy and caring attitude and maintain high ethical standards
- To prepare for a career in teaching, research and specialty practice
- Deliver unbiased patient care and develop communication skills

  
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## MDS COURSE OUTCOMES

| SL.NO | NAME OF THE PROGRAMME                        | NAME OF THE COURSE    | COURSE OUTCOME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------|----------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.1   | MDS – Conservative dentistry and endodontics | Applied basic science | <p>Understanding and correlation of basic sciences as relevant to conservative dentistry and endodontics.</p> <p>Students should be able to apply high moral and ethical standards while carrying on human or animal research.</p> <p>Students should be able to demonstrate communication skills in particular to explain various options available for management of toothpain.</p> <p>He/she should motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasized which will help maintain the restorative work and prevent further damage.</p> <p>Students would demonstrate infection control measures in dental clinical environment and laboratories.</p> <p>Students would adopt ethical principles in all aspects of restorative and contemporary endodontics</p> |

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8.2

Conservative  
dentistry

Perform all levels of restorative work including aesthetic procedures and treatment including complicated restorative procedures.  
Students would be able to describe aetiology, pathophysiology, diagnosis and management of dental caries, non-carious lesions and hypersensitivity.  
Students would be able to 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.  
He/she should motivate the patient for proper dental treatment at the same time proper



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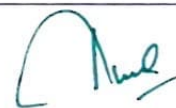
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|-----|--|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |  |             | <p>maintenance of oral hygiene should be emphasized which will help maintain the restorative work and prevent further damage.</p> <p>5. Student would be able to have an understanding on all the recent restorative materials and technology.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 8.3 |  | Endodontics | <ol style="list-style-type: none"> <li>1. Students would be able to describe aetiology, pathophysiology periapical diagnosis and management of common endodontic situations that would include contemporary management of trauma and pulpal pathosis including endo-periodontal situations.</li> <li>2. Students would undertake complete patient monitoring including pre-operative as well as post-operative care.</li> <li>3. Students would be able to master differential diagnosis and recognize conditions that may require multidisciplinary approach or a clinical situation outside the realm of the specialty, which he or she would be able to recognize and refer to the appropriate specialist.</li> <li>4. Students would perform all levels of surgical and non surgical endodontic procedures including Endosseous implants, retreatment as well as endo-periodontal surgical procedures as a part of multidisciplinary approach to clinical condition.</li> <li>5. Students would be able to manage acute pulpal and pulpoperiodontal situations.</li> <li>6. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.</li> <li>7. Student would be able to have an understanding on all the recent restorative materials and technology.</li> </ol> |
| 8.4 |  | Long essay  | <ol style="list-style-type: none"> <li>1. Students would diagnose, plan and execute challenging clinical cases requiring comprehensive management strategies using contemporary materials and techniques in the speciality of Conservative dentistry and Endodontics.</li> <li>2. Have an in-depth knowledge of pathophysiology, diagnosis, treatment planning of diseases of pulp and periradicular tissues.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|     | Name of the program                    | Name of course                                                                                                                     | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1 | MDS-<br>Oral Medicine<br>and Radiology | <ul style="list-style-type: none"> <li>Applied Anatomy, Physiology, Pathology and Pharmacology</li> </ul>                          | <ol style="list-style-type: none"> <li>On completion of the course,</li> <li>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.</li> <li>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.</li> <li>Student would be efficient enough to understand the basics of Applied Anatomy, Physiology, Pathology and Pharmacology for the better</li> <li>outcome of the subject.</li> </ol>                                                                                       |
| 2.2 |                                        | <ul style="list-style-type: none"> <li>Diagnosis, diagnostic methods and imageology and Applied</li> <li>Oral Pathology</li> </ul> | <ol style="list-style-type: none"> <li>On completion of the course,</li> <li>The student will be able to execute diagnose &amp; deal with diseases affecting the oro-facial.</li> <li>region &amp; apply high moral and ethical standards while carrying out clinical and radiographic examinations.</li> <li>They would be proficient enough to understand the diagnosis and diagnostic methods, ionizing radiation, its applications in dentistry and its limitations.</li> <li>They will be trained enough for diagnostic methods and its application in dentistry.</li> <li>They will also be having sufficient knowledge for radiographic diagnosis, techniques involved in conventional and advanced diagnostic</li> <li>radiographic</li> <li>examination.</li> </ol> |



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| 2.3 |  | <ul style="list-style-type: none"> <li>• Oral Medicine,</li> <li>• Therapeutics and laboratory investigations.</li> </ul> | <p>On completion of the course,</p> <p>1. The student would be efficient in arriving at precise diagnosis and treatment plan, affecting the oro-facial region.</p> <p>2. They will also be instructed to inculcate the causes, principles, and frame the skeleton for management of oro-facial diseases.</p> <p>3. They would be proficient to formulate the differential diagnosis, investigations treatment plan and design the therapeutics aspects as well.</p> <p>4. Developing the communication skills and ability to explain the disease process to the patient and to obtain a informed consent from the patient.</p> |
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|-----|-------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.4 |                                           | Essay                                                                    | <ol style="list-style-type: none"> <li>1. On completion of the course,</li> <li>2. The student would be proficient in effectively and freely analyzing the problem presented by recalling factually.</li> <li>3. The student would be an expert at synthesizing ideas and rendering a suitable opinion of the problem</li> <li>4. presented.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6.1 | MDS – ORAL<br>PATHOLOGY &<br>MICROBIOLOGY | APPLIED                                                                  | <ol style="list-style-type: none"> <li>1. the post graduate must have applied knowledge in basic sciences like anatomy, histology physiology and biochemistry.</li> <li>2. the student also would have learnt the basics in general pathology and general microbiology along with molecular aspects involved in pathogenesis.</li> <li>3. the post graduate would know the basic principles of biostatistics and research methodology as applied to               <ol style="list-style-type: none"> <li>a. dentistry and research.</li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                    |
| 6.2 |                                           | ORAL PATHOLOGY,<br>MICROBIOLOGY,<br>IMMUNOLOGY AND<br>FORENSIC DENTISTRY | <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. along with oral pathology the student also learns the skills in basic laboratory investigations involving hematology, microbiology and specialized histotechniques and special stains.</li> <li>3. the student would have thorough knowledge in oral immunology and oncology along with the molecular aspects of it.</li> <li>4. the student would have learnt in detail about the forensic odontology involving legal procedures, post mortem examination of violence around mouth and neck, identification of deceased individual – dental</li> <li>5. importance</li> </ol> |



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| s.no | Name of the program                               | Name of the course     | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 3.1  | MDS-<br>Paedodontics &<br>Preventive<br>Dentistry | Applied Basic Sciences | <ol style="list-style-type: none"> <li>1. Students should be able to understand applied Anatomy, genetics, applied physiology, Applied Pathology, Nutrition, Dietetics, Growth and development, cariology and fluoride.</li> <li>2. 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 Paediatric preventive dentistry.</li> <li>3. Students should be able to develop an attitude of Counselling in Paediatric dentistry.</li> <li>4. Students should be able to do case history recording, outline of principles of examination, diagnosis</li> <li>5. and treatment plan.</li> </ol>                                                                                                                                                                                                                                     |
| 3.2  |                                                   | Clinical Paedodontics  | <ol style="list-style-type: none"> <li>1. students should be competent to treat dental diseases which are occurring in child patient. 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</li> <li>2. and fixed therapy.</li> <li>3. students should be able to manage the disabled children effectively and efficiently, tailored to needs of individual requirement and conditions.</li> <li>4. students should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure and emerging concepts in paediatric dentistry</li> <li>5. students should be able to develop an attitude to adopt ethical principles in all aspects of paediatric dental practice along with professional</li> <li>6. honesty and integrity.</li> </ol> |

  
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| 3.3 |  | Preventive and community dentistry as applied to paediatric dentistry | <p>1) students should be able to create a good oral health in the child with installing a positive attitude and behaviour in children.</p> <p>2) students should be able to understand the principles of prevention and preventive dentistry right from birth to adolescence.</p> <p>3) students should be able to guide and counsel parents in regard to various treatment modalities including different facets of preventive dentistry.</p> <p>4) students should be able to deliver care irrespective of social status, caste, creed, religion of the patients.</p> <p>5) students should be able to share the knowledge and clinical experience with professional colleagues with own willingness.</p> <p>6) camps are being conducted and awareness regarding oral hygiene maintenance is given.</p> |
| 3.4 |  | Essay                                                                 | <ol style="list-style-type: none"> <li>1. For a given case, the student after the critical assessment should be able to adopt new methods and techniques of pediatric dentistry that is developed time to time, based on scientific researches, which are in best interest of the child and parent.</li> <li>2. students should be able to respect child patient's rights and privileges, including child patient's right to information and right to seek a second opinion</li> </ol>                                                                                                                                                                                                                                                                                                                     |

  
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| 7.1 | MDS-<br>Periodontology | Applied basicsciences                                              | <ol style="list-style-type: none"> <li>1. The Candidate should have a wide review of the current methods and research used in studying problems in periodontal disease.</li> <li>2. The candidate should have a basic knowledge of medical emergencies and basic life support devices.</li> <li>3. The candidate should have an understanding of the broad range of infectious diseases affecting the oral cavity.</li> <li>4. The candidate should have an understanding on clinical and biological factors to be considered in the appropriate use of antimicrobial drugs</li> <li>5. The candidate should have an understanding of hospital-acquired infections and its management.</li> <li>6. The candidate should be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretations of laboratory reports.</li> <li>7. 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.</li> <li>8. The candidate should have basic knowledge about microbiology and immunology.</li> </ol> |
| 7.2 |                        | Normal periodontal structure and etiopathogenesis and epidemiology | <ol style="list-style-type: none"> <li>1. The candidate should have a sound knowledge on the normal structure and functions of periodontium and its contributing etiological factors resulting in the pathogenesis of periodontal diseases and its application in the diagnosis.</li> <li>2. The candidate should have broad overview of influence of systemic disease and disorders of the periodontium</li> <li>3. The candidate should be able to record oral indices and plan</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

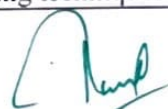


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|     |  |                                                      | <p>out epidemiological survey to assess the prevalence and incidence periodontitis in Indian population.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 7.3 |  | Periodontal Diagnosis, Therapy and Oral Implantology | <ol style="list-style-type: none"> <li>1. The candidate would be able to understand the general principles of anti-infective therapy with special emphasis on infection control in periodontal practice</li> <li>2. The candidate should have a sound knowledge of the etiopathogenesis and its application in diagnosing various periodontal diseases and should be familiar with various periodontal treatment modalities available to treat those cases.</li> <li>3. The candidate should have an updated and recent knowledge on advancements and be able to modify their treatment accordingly.</li> <li>4. The candidate should have knowledge about biological, clinical and surgical aspects of dental implants. Should be aware of the various designs and placement of oral implants and follow up of implant prosthesis.</li> </ol> |

  
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| 7.4 |                                        | Essay                                                       | <ol style="list-style-type: none"> <li>1. The candidate would be able to outline the knowledge, procedural and clinical skills needed in master's degree periodontics. Should be knowledgeable to provide clinical care for patients with complex problems that are beyond the treatment skills of general dentist and demonstrate evaluative and judgment skills in making appropriate decision regarding prevention, correction and referral to deliver comprehensive care to patients.</li> <li>2. The candidate should be able to analyze various clinical scenarios and apply their knowledge accordingly.</li> </ol>                                               |
| 1.1 | MDS In prosthodontics crown and bridge | Applied anatomy, physiology, pathology and dental materials | <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. The candidate would gain the thorough knowledge of applied basic and systematic medical sciences.</li> <li>3. Examination and systematic investigation of patients requiring prosthodontics treatment along with interpretation of investigation results will be achieved by the post graduate.</li> <li>4. Utilization of various material</li> <li>5. and application in fabrication of dental prosthesis along with necessary repairing techniques</li> </ol> |



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| 1.2 |  | Removable prosthodontics and oral implantology | <ol style="list-style-type: none"> <li>1. Age related changes and its prosthodontics treatment related to removable prosthodontics and implantology will be attained by the candidate.</li> <li>2. Demonstration of the skills by the candidate in restoring the lost functions of stomatognathic system which includes mastication, speech, appearance I and psychological comforts by removable prosthesis.</li> <li>3. 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.</li> <li>4. Apt implantology care will be learned and adapted in their practice in treating the patients especially geriatric patients.</li> </ol> |
| 1.3 |  | Fixed prosthodontics                           | <ol style="list-style-type: none"> <li>1. Understanding the diseases of craniomandibular system, its prevalence and prevention related to fixed prosthodontics by the post graduate.</li> <li>2. Adapting new methods and techniques in fixed prosthodontics based on scientific research that occurs from time to time in view of patient's best interest will be learned by the candidate.</li> <li>3. Communication in patient's understandable language regarding the principals of fixed prosthodontics will be adapted by the candidate.</li> <li>4. Post graduate will be able to diagnose and analyses various possibilities of fixed prosthodontic treatment keeping in view of the various situations and needs of the</li> </ol>                                                                       |



|     |                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|---------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                             |       | patients.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1.4 |                                             | Essay | <ol style="list-style-type: none"> <li>1. Gaining the knowledge, procedural and operative skills needed in master's degree in prosthodontics can be outlined by the post graduate.</li> <li>2. Ability to possess and apply the comprehensive knowledge will be attained by the candidate in all the sub branches.</li> </ol>                                                                                                                                             |
|     | MDS<br>ORAL AND<br>MAXILLOFACIAL<br>SURGERY |       | <ol style="list-style-type: none"> <li>1. Student should be able to identify the tooth indicated for extraction</li> <li>2. Student should be able to differentiate the primary and permanent teeth</li> <li>3. Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning</li> <li>4. Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral</li> </ol> |

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|  |  |  | <p>surgical procedures</p> <ol style="list-style-type: none"> <li>5. 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,</li> <li>6. Should be able to perform various types of suturing techniques and dental wiring on models</li> <li>7. Student should be able to perform total extraction procedures and manage complications</li> <li>8. Student will be able to perform extraction for special children and medically compromised patients</li> <li>9. Student will be able to discuss about the various advanced oral surgical procedures</li> <li>10. Student should be able to display effective interpersonal communication and managerial skills on patient care</li> </ol> |
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