



MATHRUSRI RAMABAI AMBEDKAR DENTAL COLLEGE & HOSPITAL

(Founded by : Ananda Social & Educational Trust)
ISO 9001:2015 CERTIFIED

Affiliated to Rajiv Gandhi University of Health Sciences
Recognised by Dental Council of India

1/36, Cline Road, Cooke Town, Bengaluru - 560 005
Ph: 080 - 2546 0747 www.mradc.in

LEARNING OUTCOMES AND GRADUATE ATTRIBUTES FOR UNDERGRADUATE DENTAL TRAINING

Upon completing the undergraduate dental program, graduates will demonstrate proficiency in the following areas:

General Skills

- Apply knowledge and skills in everyday practice.
- Uphold ethical principles in dental care.
- Analyze treatment outcomes and adjust as needed.
- Evaluate scientific literature to inform treatment decisions.
- Engage actively with professional organizations.
- Perform self-assessment and stay updated with the latest advancements.
- Participate in basic research projects.
- Possess minimum computer skills to enhance professional knowledge.
- Refer patients for specialized consultations as required.
- Understand fundamental forensic odontology and geriatric dental issues.

Practice Management

- Assess practice location, population demographics, and reimbursement mechanisms.
- Coordinate and supervise the activities of dental health personnel.
- Maintain comprehensive and accurate records.
- Implement and oversee infection control and environmental safety programs.
- Practice within the scope of competence and expertise.

Communication & Community Resources


- Understand and address patients' goals, values, and concerns to guide care.
- Communicate effectively, both verbally and in writing, with all stakeholders.
- Contribute to community oral health through active participation in health initiatives.



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Patient Care – Diagnosis

- Collect patient history systematically.
- Perform thorough clinical examinations.
- Select and interpret clinical, radiological, and other diagnostic information.
- Obtain appropriate consultations when necessary.
- Develop provisional, differential, and final diagnoses.

Patient Care – Treatment Planning

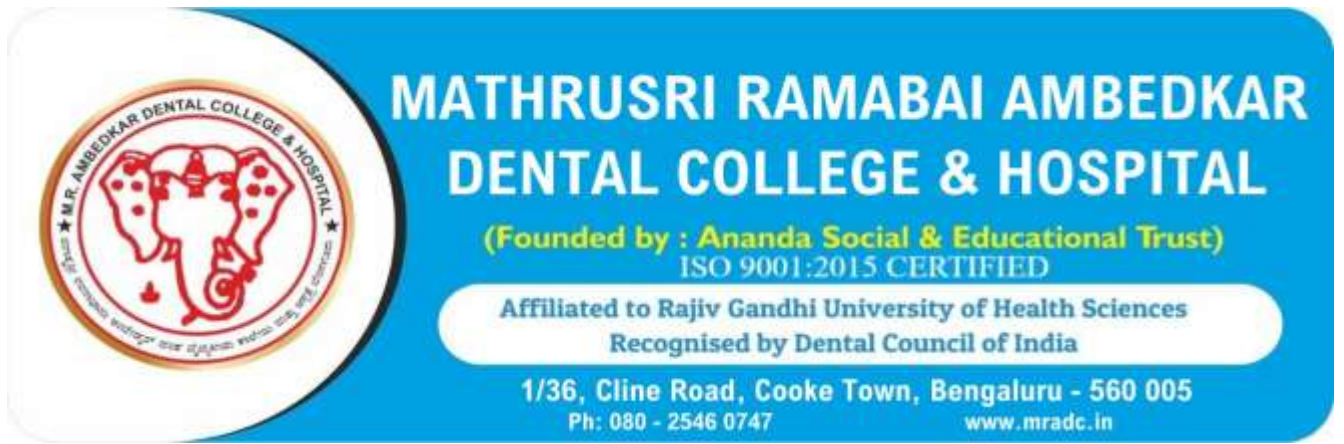
- Integrate various disciplines to formulate comprehensive treatment plans using diagnostic and prognostic information.
- Order and interpret appropriate investigations.

Patient Care – Treatment

- Recognize and manage medical emergencies during dental treatments.
- Provide basic cardiac life support.
- Manage pain, including postoperative pain.
- Administer local anesthesia, intramuscular, and intravenous injections.
- Prescribe drugs for preoperative, prophylactic, and therapeutic purposes.
- Perform uncomplicated extractions, transalveolar extractions, and removal of simple impacted teeth.
- Carry out minor oral surgical procedures and manage oro-facial infections.
- Apply simple orthodontic appliances and process intraoral radiographs.
- Conduct restorative procedures with various materials, simple endodontic treatments, and removable and fixed prosthodontics.
- Execute various periodontal therapies.



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Oral Medicine & Radiology

- Identify and refer precancerous and cancerous oral lesions.
- Understand common laboratory investigations and interpret their results.
- Be aware of medical complications in systemically compromised patients and obtain necessary consent.
- Knowledgeable about radiation safety and health hazards.
- Perform and interpret intra-oral and extra-oral radiographs, including TMJ radiography and sialography.
- Understand the role of radiographs in forensic identification and age estimation.
- Be familiar with jurisprudence, ethics, and the significance of dental records in legal contexts.

Pediatric & Preventive Dentistry

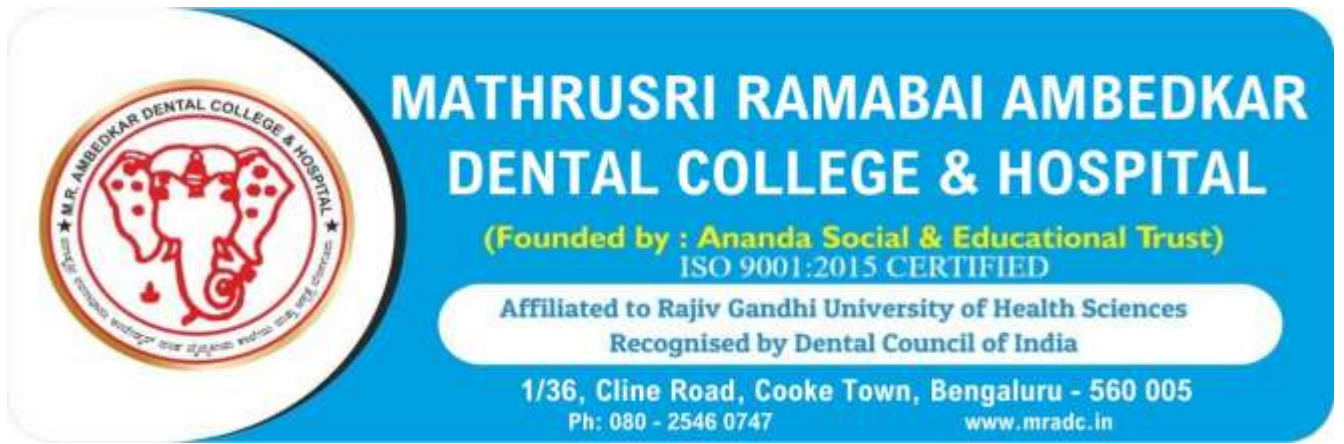
- Foster a positive attitude towards oral health in children and understand preventive dentistry principles from birth to adolescence.
- Guide and counsel parents on treatment options and preventive measures.
- Treat dental diseases in children and manage physically and mentally challenged children effectively.

Orthodontics & Dentofacial Orthopedics

- Understand normal facial skeleton and dentition growth and development.
- Identify growth abnormalities and plan necessary treatments.
- Diagnose various malocclusion categories and motivate patients and parents about treatment necessity.
- Plan and execute preventive and interceptive orthodontics, including space maintainers and habit-breaking appliances.
- Manage simple malocclusions and deliver removable orthodontic appliances.
- Refer complex cases to specialists as needed.



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Periodontology

- Diagnose and plan appropriate periodontal treatments.
- Educate and motivate patients regarding periodontal health.
- Perform thorough oral prophylaxis, subgingival scaling, root planning, and minor periodontal surgeries.
- Provide post-treatment instructions and conduct periodic recalls.

Prosthodontics and Crown & Bridge

- Understand and utilize various dental materials.
- Carry out conventional complete and partial removable denture treatments and fabricate fixed partial dentures.
- Perform routine prosthodontic procedures and be familiar with osseointegration and implant-supported prosthodontics.

Conservative Dentistry and Endodontics

- Diagnose carious lesions and restore cavities with appropriate materials.
- Perform pulp capping procedures and root canal treatments for anterior teeth.
- Carry out small composite restorations and understand aesthetic dental procedures.

Oral & Maxillofacial Surgery


- Apply basic medical and clinical knowledge to manage oral surgical problems.
- Diagnose, manage, and treat basic oral surgical issues and understand broader maxillofacial surgery and implantology.
- Handle legal, ethical, and moral issues in patient care.
- Examine patients systematically and practice asepsis and sterilization.
- Perform extractions under local and general anesthesia and manage minor oral surgical procedures.
- Address common complications during and after surgery and provide primary care and emergency management.



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Public Health Dentistry

- Apply health promotion and disease prevention principles.
- Understand the organization and provision of community and hospital-based healthcare.
- Be aware of the prevalence of common dental conditions and community preventive measures.
- Educate patients on oral disease etiology and prevention, and encourage personal responsibility for oral health.



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