

Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO, PEO & CO

Programme: MDS in Conservative Dentistry and Endodontics

Programme Code: 068

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Program Educational Objectives (PEO)

Course Outcomes (CO)



Approved in 23rd ACM (Resolution 23.05) held on 15th July 2021

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Registrar
M.S. Ramaiah University of Applied Sciences
Bangalore - 560 054

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Programme Name: MDS (Mater of Dental Surgery)

Programme Outcomes (POs)

M.D.S. in Conservative Dentistry and Endodontics graduates will be able to:

- PO-1. Acquire knowledge on theoretical sciences relevant to Restorative Dentistry and Endodontics
- PO-2. Plan multidisciplinary and preventive treatment strategies specific to the needs of the patient.
- PO-3. Perform all levels of restorative procedures, non-surgical and surgical endodontics.
- PO-4. Incorporate advanced diagnostics and technology in patient management.
- PO-5. Understand and solve complex oral health care problems by conducting ethical investigations, research or project
- PO-6. Inculcate leadership skills

Programme Specific Outcomes (PSOs)

The objectives of the MDS in Conservative Dentistry and Endodontics programme are to:

- PEO-1. Provide students with a strong foundation in basic and applied medical and dental sciences relevant to Restorative Dentistry and Endodontics.
- PEO-2. Impart analytic and cognitive skills required to plan multidisciplinary treatment modalities and preventive strategies specific to the needs of the patient.
- PEO-3. Train students in all levels of restorative work, non-surgical and surgical endodontics incorporating advanced diagnostics and technology in patient management.
- PEO-4. Impart strong human values, entrepreneurial and leadership skills to evolve as global professionals and contribute to the well-being and welfare of the society.

Programme Specific Outcomes (PSOs)

At the end of the M.D.S (Conservative Dentistry and Endodontics) program, the graduate will be able to:

- PSO-1. Discuss etiology, pathophysiology and clinical presentation of diseases of the tooth and periapical tissues leading to their diagnosis.
- PSO-2. Predict prognosis and implement a preventive strategy and justify an evidence based treatment option to efficiently manage diseases of the tooth and its supporting tissues.
- PSO-3. Demonstrate proficiency in preventive and interventional restorative care including esthetically challenging cases and procedures of non-surgical and surgical endodontics.
- PSO-4. Work as an effective leader with good communication skills in a multidisciplinary clinical care setup, inculcating best practices in management and administration.



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Program Educational Objectives (PEOs)

The objectives of the M.D.S. (Conservative Dentistry and Endodontics) Programme are to:

- PEO-1. Provide students with a strong foundation in basic and applied medical and dental sciences relevant to Restorative Dentistry and Endodontics.
- PEO-2. Impart analytic and cognitive skills required to plan multidisciplinary treatment modalities and preventive strategies specific to the needs of the patient.
- PEO-3. Train students in all levels of restorative work, non-surgical and surgical endodontics incorporating advanced diagnostics and technology in patient management.
- PEO-4. Impart strong human values, entrepreneurial and leadership skills to evolve as global professionals and contribute to the well-being and welfare of the society.

Course Outcomes (COs)

Course Title & Code: Preclinical and Clinical Phase Basics (CDC501A)

After the successful completion of this Course, the student will be able to:

- CO-1. Review basic sciences relevant to the oro-facial region and relate the importance of occlusion in restorative dentistry
- CO-2. Analyze biomaterials and adhesive systems used in Restorative Dentistry and Endodontics
- CO-3. Restore the prepared cavity on typhodont and perform various endodontic procedures on extracted teeth
- CO-4. Diagnose caries, differentiate diseases of the pulp and periapical tissues, and choose appropriate treatment strategy
- CO-5. Perform restorative, simple esthetic and endodontic procedures on patients
- CO-6. Select appropriate restorative material according to biological response of pulp and risk assessment of the patient

Course Outcomes (COs)

Course Title & Code: Clinical Phase Intermediate (CDC502A)

After the successful completion of this Course, the student will be able to:

- CO-1. Formulate a multi-disciplinary approach in treating challenging aesthetic cases and traumatic injuries
- CO-2. Justify restorative treatment strategies for compromised teeth
- CO-3. Appraise techniques of prevention and minimal intervention in restorative care
- CO-4. Perform endodontic treatment and retreatment with rotary instruments integrating advanced dental imaging, magnification and Lasers
- CO-5. Review advanced surgical modalities of endodontic treatment
- CO-6. Evaluate the scope and application of molecular biology techniques in endodontics



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Course Outcomes (COs)

Course Title & Code: Clinical Phase Advanced (CDC503A)

After the successful completion of this Course, the student will be able to:

- CO-1. Develop treatment strategy specific to needs of the patient at a specialist level
- CO-2. Analyze the emerging trends in restorative dentistry and integrate advanced restorative techniques
- CO-3. Manage effectively surgical, non-surgical endodontic, and procedural errors
- CO-4. Analyze the emerging trends in Endodontics and perform advanced endodontic procedures
- CO-5. Execute a protocol for preventing diseases of the teeth and associated periapex
- CO-6. Deliver the highest standard of oral health care by working as a team and demonstrate practicemanagement skills

Course Outcomes (COs)

Course Title & Code: Clinical Photography (MF501A)

- CO-1. Describe the basic parts and functions of the camera, Principles behind the working of a camera, types of camera and components of a SLR camera.
- CO-2. Demonstrate on how to use a DSLR.
- CO-3. Perform the skills of taking both intraoral and extraoral photographs of the module.

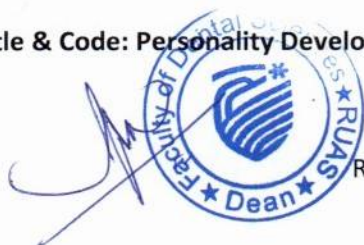
Course Outcomes (COs)

Course Title & Code: Basic and Advanced Life Support (MF502A)

- CO-1. Describe and demonstrate effective cardio pulmonary resuscitation with automatic External Defibrillator use for adults and children with 1 rescuer and 2 rescuers.
- CO-2. Describe and demonstrate effective cardio pulmonary resuscitation for infants with 1 rescuer and 2 rescuers.
- CO-3. Differentiate between adult, child and infant rescue techniques.
- CO-4. Demonstrate rescue breathing for adult, child and infant
- CO-5. Demonstrate bag mask technique for adult, child and infant
- CO-6. Demonstrate relief of choking for adult, child and infant

Course Outcomes (COs)

Course Title & Code: Personality Development and Communication Skills (MF503A)



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After the successful completion of this Module, the student will be able to:

- CO-1. Explain the concept of interpersonal effectiveness
- CO-2. Identify the nuances of working in teams, conflict handling, and time management
- CO-3. Apply the principles of interpersonal communication towards professional betterment
- CO-4. Apply time management tools for optimal usage of time

Course Outcomes (COs)

Course Title & Code: Law for Dental Professionals (BDF101A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the structure and functioning of legal system of India
- CO-2. Differentiate between various laws relevant to dentistry
- CO-3. Identify clinical situations that pose ethical dilemma to be resolved with sound ethical principles
- CO-4. Apply principles of professionalism in the practice of dentistry
- CO-5. Communicate effectively with patients, colleagues and public to instill a positive dental attitude
- CO-6. Prepare plan of action in case of litigation against the doctor

Course Outcomes (COs)

Course Title & Code: Teacher Training Module (MF505A)

After the successful completion of this Module, the student will be able to:

- CO-1. Develop teaching notes on the allotted topic
- CO-2. Deliver lecture to a group of students
- CO-3. Submit questions for assessment relevant to the allotted topic
- CO-4. Analyze student feedback to initiate corrective actions.

Course Outcomes (COs)

Course Title & Code: Research Methodology (MR501A)

After the successful completion of this Module, the student will be able to:

- CO-1. Describe the value, scope, relevance and mandatory steps of research as well as principles of effective research
- CO-2. Apply the procedures outlined for systematic literature review



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- CO-3. Develop and present well structured research proposal and research paper invoking clearly outlined principles
- CO-4. Identify and apply the essential skills desirable for an effective technical presentation

Course Outcomes (COs)

Course Title & Code: Short Term Project/ Group Project (MR502A)

After the successful completion of this Module, the student will be able to:

- CO-1. Work in a team and undertake a project in their area of specialization
- CO-2. Apply the design methods and techniques for executing the project
- CO-3. Apply appropriate methodology while formulating a project

Course Outcomes (COs)

Course Title & Code: Library Dissertation (MR503A)

After the successful completion of this Module, the student will be able to:

- CO-1. Differentiate types of scientific literature, search strategies and research designs
- CO-2. Select topic relevant to the field of study
- CO-3. Select literature utilising different search engines
- CO-4. Review the selected literature and compile it
- CO-5. Formulate a research question based on the outcome of literature review
- CO-6. Prepare scientific manuscript for publication

Course Outcomes (COs)

Course Title & Code: Dissertation (MR504A)

After the successful completion of this Module, the student will be able to:

- CO-1. Critically review scholarly literature collected from various sources for the dissertation purpose and formulate a research problem
- CO-2. Prepare and present a research proposal
- CO-3. Conduct research to achieve research objectives
- CO-4. Propose new ideas/methodologies or procedures for further improvement of the research undertaken
- CO-5. Create research document and write research papers for publications
- CO-6. Defend the research findings in front of scholarly audience

Course Outcomes (COs)

Course Title & Code: Conference Presentation (PMR505A)



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After the successful completion of this Module, the student will be able to:

- CO-1. Choose a contemporary topic in his/her area of study for research
- CO-2. Write a conference paper based on research and present in the conference

Course Outcomes (COs)

Course Title & Code: Journal Publication (MR506A)

After the successful completion of this Module, the student will be able to:

- CO-1. Choose a contemporary topic in his/her area of study for research
- CO-2. Write a research paper based on research and publish in a journal

Course Outcomes (COs)

Course Title & Code: Interuniversity Module (MG501A)

After the successful completion of this Module, the student will be able to:

- CO-1. Apply tools and techniques proficiently in the area of the training undergone for efficient execution of the stated objective
- CO-2. Make presentation on training obtained



[Handwritten Signature]
Registrar
M.S. Ramaiah University of Applied Sciences
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