

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO, PEO & CO

Programme: MDS in Pediatric and Preventive Dentistry

Programme Code: 072

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Program Educational Objectives (PEO)

Course Outcomes (CO)




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

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



Programme Name: MDS (Master of Dental Surgery)

Programme Outcomes (POs)

M.D.S. (Pediatric and Preventive Dentistry) graduates will be able to:

- PO1.** Impart knowledge on growth and development of stomatognathic system as well overall aspects of the child
- PO2.** Enhance the understanding of the common oral diseases affecting the teeth and the supporting tissues of children through adolescence including the etiology, clinical manifestations and differential diagnosis
- PO3.** Evaluate treatment options and deliver it with most efficient manner based on evidence based dentistry
- PO4.** Analyze the behavior of the children both in the clinical setup and otherwise to inculcate good dental behavior
- PO5.** Impart training on instruments and techniques for various procedures for oral rehabilitation
- PO6.** Provide a general perspective and opportunities for a career in pediatric dentistry

Programme Specific Outcomes (PSOs)

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

- PSO-1.** Diagnose and explain clinical manifestations of common oral diseases affecting teeth and supporting tissues of children through adolescence including those with special health care needs
- PSO-2.** Justify the best treatment option and deliver it in the most efficient manner based on evidence-based dentistry
- PSO-3.** Analyze the behaviour of children both in clinical setup and otherwise, to inculcate positive dental attitude
- PSO-4.** Deliver effective comprehensive, preventive and therapeutic paediatric dental treatment

Program Educational Objectives (PEOs)

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

- PEO-1.** Provide students with a strong foundation in basic and applied medical and dental sciences to address oral health issues to enable them to devise and deliver efficient solutions to challenging problems pertaining to oral and maxillofacial region in infants and children through adolescence including those with special health care needs
- PEO-2.** Impart analytic and cognitive skills required to develop innovative solutions for R&D, Industry, and societal requirements as related to pediatric dentistry
- PEO-3.** Provide sound theoretical and practical knowledge of oral health sciences, managerial and entrepreneurial skills to enable students to contribute to the well-being and welfare of the society
- PEO-4.** Inculcate strong human values and social, interpersonal and leadership skills required for professional success in evolving global professional environments



Course Outcomes (COs)

Course Title & Code: Preclinical and Clinical Phase Basics (PEC501A)

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

- CO-1. Apply basic medical sciences including genetics and molecular biology with emphasis to pediatric dentistry
- CO-2. Perform preclinical procedures on wax blocks, typhodont and extracted teeth
- CO-3. Fabricate orthodontic appliances on study models
- CO-4. Interpret intraoral
- CO-5. Plan preventive and therapeutic approaches based on caries risk assessment tools.
- CO-6. Perform basic clinical procedures using non pharmacological behavior management approaches

Course Outcomes (COs)

Course Title & Code: Clinical Phase Intermediate (PEC502A)

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

- CO-1. Apply the basic concepts of occlusion, TMJ anatomy and pathology related to neuromuscular physiology in a child
- CO-2. Plan preventive and interceptive orthodontics
- CO-3. Observe the operating procedure for rehabilitating a pediatric patient under pharmacological domain
- CO-4. Perform appropriate endodontic therapy in primary and permanent teeth
- CO-5. Perform minor oral surgical procedures for trauma and pathology in a pediatric patient with empathy
- CO-6. Design suitable removable and fixed prosthesis for establishing form, function and esthetics.

Course Outcomes (COs)

Course Title & Code: Clinical Phase Advanced (PEC503A)

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

- CO-1. Plan comprehensive treatment using appropriate behavior management techniques
- CO-2. Strategizing treatment protocols for dental neglect and child abuse CO4: Evaluate levels of prevention of oral diseases in children
- CO-3. Analyze the protective action of both topical and systemic fluoride
- CO-4. Evaluate levels of prevention of oral diseases in children
- CO-5. Management strategies for children with special health care needs
- CO-6. Incorporate the recent advances in pediatric dentistry into their practices



Course Outcomes (COs)

Course Title & Code: Clinical Photography (MF501A)

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

- 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)

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

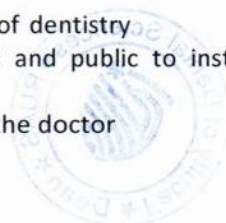
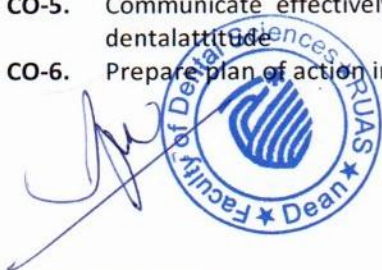
- CO-1. Explain the concept of interpersonal effectiveness
- CO-2. Identify the nuances of working in teams, conflict handling, and time management
- CO-3. Apply the principles of interpersonal communication towards professional betterment
- CO-4. Apply time management tools for optimal usage of time

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
- 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)

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



