

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 Periodontology

Programme Code: 066

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 (Mater of Dental Surgery)

Programme Outcomes (POs)

M.D.S. (Periodontology) graduates will be able to:

- PO1. Impart knowledge on growth and development of stomatognathic system in general and the periodontium in particular
- PO2. Enhance the understanding of the common oral and systemic diseases affecting the periodontium including the etiology, clinical manifestations and differential diagnosis
- PO3. Critically analyze the various treatment options and deliver it with most efficient manner based on evidence based dentistry
- PO4. Impart knowledge, skill in the science and practice of Oral Implantology
- PO5. Impart training on instruments and techniques for various procedures for periodontal treatment.
- PO6. Provide a general perspective and opportunities for a career in periodontics

Programme Specific Outcomes (PSOs)

At the end of MDS (Periodontology) programme, the graduates will be able to:

- PSO-1. Apply the knowledge of etiopathogenesis, diagnosis and the inter-relationship of periodontal diseases with systemic conditions and adapt preventive measures for treatment of periodontal disease
- PSO-2. Adapt newer trends and technologies in periodontology with appropriate treatment plan for the restoration of periodontal health
- PSO-3. Demonstrate basic and advanced surgical regenerative procedures and supportive periodontal therapy
- PSO-4. Develop multi-disciplinary approach for comprehensive treatment and develop research project

Program Educational Objectives (PEOs)

The objectives of MDS (Periodontology) 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 supporting structures of the teeth
- PEO-2. Impart analytic and cognitive skills required to develop innovative solutions for R&D, Industry, and societal requirements as related to periodontology
- 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 (POC501A)

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

- CO-1. Describe the etiopathogenesis, clinical signs and symptoms of periodontal disease including applied basic anatomy and pathology
- CO-2. Describe the prognostic and risk factors for periodontal disease
- CO-3. Analyze the influence of systemic conditions on periodontal health and disease
- CO-4. Categorize instruments and demonstrate instrument skills on models.
- CO-5. Plan appropriate treatment based on clinical, laboratory and radiological findings through empathetic patient assessment for periodontal diseases
- CO-6. Perform non-surgical treatment strategies for periodontal disease including treatment of medically compromised patients

Course Outcomes (COs)

Course Title & Code: Clinical Phase Intermediate (POC502A)

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

- CO-1. Differentiate periodontal diseases requiring systemic, local drug delivery and host modulation therapy
- CO-2. Describe the principles of surgery for periodontal therapy and differentiate the merits and demerits of flap designs and plan surgical procedures accordingly
- CO-3. Demonstrate different incisions and suturing techniques and Perform periodontal surgery for management of pockets
- CO-4. Plan and Perform simple and complex surgical treatment for various periodontal and perioesthetic conditions with empathy
- CO-5. Demonstrate use of simulated software for planning implant supported therapy
- CO-6. Manage complex periodontal diseases through an interdisciplinary approach

Course Outcomes (COs)

Course Title & Code: Clinical Phase Advanced (POC503A)

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

- CO-1. Select appropriate resective and regenerative surgical procedures for simple and complex periodontal conditions
- CO-2. Develop surgically aesthetic periodontal treatment plans for pre-prosthetic rehabilitation.
- CO-3. Plan implants surgery using advanced imaging techniques and oral rehabilitation.
- CO-4. Perform implant surgery with emphasis on peri-implant aesthetics, maintenance and treatment of peri - implant complications
- CO-5. Employ recent advances in surgical techniques like LASERS and microsurgery
- CO-6. Explain legal and practical issues in comprehensive management of periodontal patients



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:

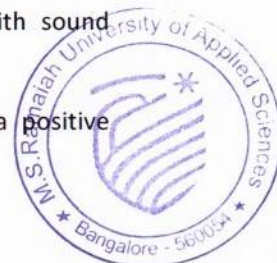
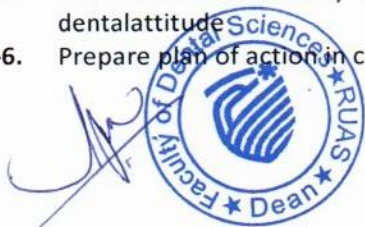
- CO-1. Explain the concept of interpersonal effectiveness
- CO-2. Identify the nuances of working in teams, conflict handling, and time management
- CO-3. Apply the principles of interpersonal communication towards professional betterment
- CO-4. Apply time management tools for optimal usage of time

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:

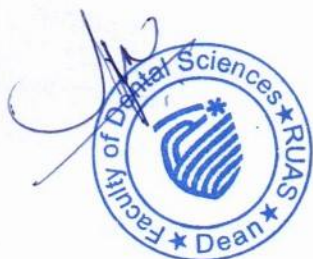
- CO-1. Work in a team and undertake a project in their area of specialization
- CO-2. Apply the design methods and techniques for executing the project
- CO-3. Apply appropriate methodology while formulating a project

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

