

# 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 Oral Medicine and Radiology

Programme Code: 065

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 23<sup>rd</sup> ACM (Resolution 23.05) held on 15<sup>th</sup> July 2021



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# Faculty of Dental Surgery (FDS)

**Programme Name: MDS (Master of Dental Surgery)**

## Programme Outcomes (POs)

**M.D.S. (Oral Medicine and Radiology) graduates will be able to:**

- PO1. Formulate a diagnosis of orofacial disorders by applying knowledge of basic sciences
- PO2. Orient students towards principles and applications of basic and advanced radiology.
- PO3. Manage medically compromised patients and medical emergencies in dental set up
- PO4. Develop expertise in personal identification procedures using forensic evidence.
- PO5. Develop research skills for handling scientific problems independently and as a team.
- PO6. Develop clinical and didactic skills enabling them to become a proficient diagnostician and academician

## Programme Specific Outcomes (PSOs)

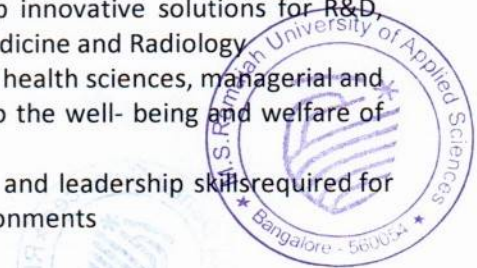
**At the end of the M.D.S (Oral Medicine and Radiology) program, the graduate will be able to:**

- PSO-1. Explain etiopathogenesis, clinical features, differential diagnosis, clinical, biochemical, and imaging investigations for treatment plan of orofacial disorders
- PSO-2. Critically appraise radiographic findings for the diagnosis of craniofacial disorders to develop an ideal treatment plan with appropriate medical/dental referrals for holistic patient management
- PSO-3. Perform appropriate chair side and radiological investigative procedure and administer suitable therapy for craniofacial disorders following comprehensive case history recording
- PSO-4. Initiate efforts towards handling challenging clinical scenarios; develop research skills in planning and handling scientific problems pertaining to oral health at clinical/community level for a promising career

## Program Educational Objectives (PEOs)

**The objectives of the M.D.S. (Oral Medicine and Radiology) 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
- PEO-2. Impart analytic and cognitive skills required to develop innovative solutions for R&D, Industry, and societal requirements as related to Oral Medicine and Radiology
- 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 (OMC501A)

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

- CO-1. Describe the clinical significance of basic medical sciences in common orofacial disorders
- CO-2. Formulate diagnosis and pharmacologic management of common orofacial disorders
- CO-3. Design diagnostic dental radiology operatory applying protection measures
- CO-4. Analyse personal identification procedures using forensic evidence
- CO-5. Perform intraoral radiographic techniques with modifications in complex clinical situations
- CO-6. Interpret anatomical landmarks in dental radiographs with emphasis on faulty radiographs

## Course Outcomes (COs)

Course Title & Code: Clinical Phase Intermediate (OMC502A)

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

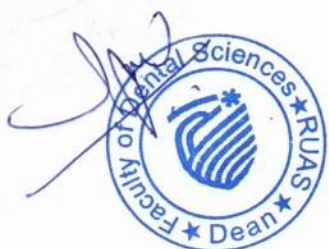
- CO-1. Diagnose developmental/ genetic disorders, odontogenic cysts and tumors affecting the head and neck region
- CO-2. Formulate diagnosis and treatment plan for oral manifestations of systemic and dermatological disorders
- CO-3. Diagnose and manage temporomandibular joint disorders, salivary gland disorders, orofacial pain and potentially premalignant oral epithelial lesions
- CO-4. Employ chair side investigations to diagnose Oral Cancer and formulate treatment plan
- CO-5. Interpret the normal and pathological features in digital and contrast radiographs
- CO-6. Formulate treatment plan in management of medical emergencies in a dental set up

## Course Outcomes (COs)

Course Title & Code: Clinical Phase Advanced (OMC503A)

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

- CO-1. Diagnose and manage diseases of the tongue, infectious disorders, pigmented lesions and neuromuscular disorders affecting the oral cavity
- CO-2. Diagnose complex clinical cases and formulate a comprehensive treatment plan
- CO-3. Analyse advanced imaging techniques in head and neck region
- CO-4. Provide comprehensive care for cessation of alcohol & tobacco
- CO-5. Differentiate the radiological appearances of various bone pathologies
- CO-6. Perform basic and advanced radiographic procedures independently and write a report



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## 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

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- 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



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- 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



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## 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

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