

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 and Maxillofacial Surgery

Programme Code: 067

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

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Programme Name: MDS (Mater of Dental Surgery)

Programme Outcomes (POs)

M.D.S. (Oral and Maxillofacial Surgery) graduates will be able to:

- PO1. Impart competency in academics, surgical practice and research in the specialty
- PO2. Extend understanding of the principles and practice of Oral and Maxillofacial Surgery in conjunction with other dental and medical specialties
- PO3. Develop clinical skills in appraisal and diagnosis of pathologies, injuries and deformities of the Head and Neck region
- PO4. Impart training on armamentarium, surgical procedures and techniques
- PO5. Enable critical analysis of various treatment options, select the appropriate method based on evidence in literature and deliver it efficiently
- PO6. Provide an opportunity and a broader perspective for a career in Oral and Maxillofacial surgery

Programme Specific Outcomes (PSOs)

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

- PSO-1. Describe the clinical features, pathophysiology, investigations, and medical management of oral conditions, and discuss surgical management of trauma, pathologies and deformities.
- PSO-2. Assess available investigative methods and procedures, interpret the clinical and laboratory data to arrive at a definitive diagnosis, discuss treatment options for Oral and Maxillofacial conditions and apply surgical principles during treatment procedures.
- PSO-3. Employ Local anesthetic techniques and other methods of anesthesia to perform oral surgical procedures commonly associated with the maxillofacial region.
- PSO-4. Take responsibility to overcome difficult situations and develop an attitude to work in a team for a multidisciplinary approach while working in a hospital based setup, develop a research project and make presentations.



Program Educational Objectives (PEOs)

The objectives of the M.D.S. (Oral and Maxillofacial Surgery) 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 surgical 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 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 (OSC501A)

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

- CO-1. Apply basic science principles to oral surgery including infection control and pharmacotherapy.
- CO-2. Demonstrate surgical anatomy of the head and neck on cadavers and suturing and wiring techniques on models.
- CO-3. Perform minor surgical procedures with appropriate armamentarium under specific local anesthetic techniques and analyse related complications
- CO-4. Justify patient management protocols and appropriate modes of anaesthesia for major surgical procedures.
- CO-5. Describe diagnostic and management protocols for diseases of salivary glands, maxillary sinus and alveolar ridge discrepancies
- CO-6. Recognise the need for interdisciplinary approach to manage medical emergencies and dental management of medically compromised patients

Course Outcomes (COs)

Course Title & Code: Clinical Phase Intermediate (OSC502A)

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

- CO-1. Compare and Contrast benign tumors and cystic lesions of the maxillofacial region
- CO-2. Analyse neurological disorders of the maxillofacial region and suggest management
- CO-3. Assess infections and injuries involving the oral & maxillofacial region including emergency management
- CO-4. Formulate treatment plan for facial cleft deformities, dentofacial deformities and aesthetic facial surgeries
- CO-5. Perform endodontic surgery, surgical management of cysts, re-implantation and transplantation of teeth and Preprosthetic surgical procedure
- CO-6. Demonstrate surgical removal of impacted third molars, canines and premolars



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Course Outcomes (COs)

Course Title & Code: Clinical Phase Advanced (OSC503A)

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

- CO-1. Formulate protocols for management of TMJ Ankylosis and disorders
- CO-2. Appraise the management protocol for malignant tumors of the maxillofacial region
- CO-3. Describe current concepts in management of craniofacial anomalies
- CO-4. Perform implant placement in patients including bone harvesting from intra oral sites and minor ridge augmentation techniques
- CO-5. Cadaveric demonstration of composite resection of the jaws with neck dissection and hard and soft tissue reconstruction
- CO-6. Justify inter disciplinary team approach for comprehensive treatment of Oral & Maxillofacial surgical patient and systematic documentation to facilitate research

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)

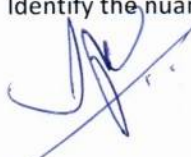
- CO-1. Describe and demonstrate effective cardio pulmonary resuscitation with automatic External Defibrillator use for adults and children with 1 rescuer and 2 rescuers.
- CO-2. Describe and demonstrate effective cardio pulmonary resuscitation for infants with 1 rescuer and 2 rescuers.
- CO-3. Differentiate 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



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- 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:

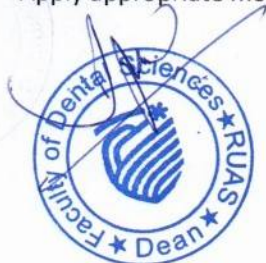
- CO-1. Describe the value, scope, relevance and mandatory steps of research as well as principles of effective research
- CO-2. Apply the procedures outlined for systematic literature review
- CO-3. Develop and present well structured research proposal and research paper invoking clearly outlined principles
- 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



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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



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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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