

# 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 Prosthodontics incl. Crown and Bridge

Programme Code: 073

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Program Educational Objectives (PEO)

Course Outcomes (CO)



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

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



## **Programme Name: MDS (Mater of Dental Surgery)**

### **Programme Outcomes (POs)**

**M.D.S. in Prosthodontics incl Crown and Bridge graduates will be able to:**

- PO1.** Enhance understanding of etiology, clinical manifestations and differential diagnosis of common oral diseases affecting teeth and surrounding structures that could result in edentulism
- PO2.** Impart knowledge and ability to diagnose and plan treatment for patients with both partial and complete edentulism
- PO3.** Critically analyze various treatment options and deliver it efficiently based on evidence based dentistry
- PO4.** Impart training on techniques for various procedures for oral rehabilitation with the most appropriate prosthodontic modality
- PO5.** Meet the human resource requirement of society and translate empathy for the geriatric population into definitive solutions for them
- PO6.** Provide opportunities for a career in clinical Prosthodontics, academics and research

### **Programme Specific Outcomes (PSOs)**

**At the end of the M.D.S (Prosthodontics incl Crown and Bridge) program, the graduate will be able to:**

- PSO-1.** Diagnose various causes for tooth loss leading to edentulism, suggest appropriate treatment options, by selecting ideal materials /techniques for treatment, so as to improve the quality of life in geriatric population and those with early tooth loss
- PSO-2.** Critically analyse all the clinical situations, compare the various treatment options including use of newer technologies in materials and techniques and, incorporating ICT for good clinical practice
- PSO-3.** Perform various clinical procedures and involving multidisciplinary approach whenever required for holistic management of the patient and pursue research based on the patients' needs
- PSO-4.** Take responsibilities in managing difficult situations using multidisciplinary hospital set up for effective oral rehabilitation of the patient and, initiate scientific research presentation pertaining to patient wellbeing.

### **Program Educational Objectives (PEOs)**

**The objectives of the MDS (Prosthodontics and Crown & Bridge) 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 Prosthodontics incl Crown and Bridge

**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 (PRC501A)**

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

- CO-1. Apply basic medical sciences and aspects of material science relevant to Prosthodontics
- CO-2. Demonstrate laboratory procedures and fabricate dental prosthesis using conventional and advanced dental materials
- CO-3. Plan treatment modalities for complete and partial edentulism considering esthetics and occlusal concepts
- CO-4. Perform clinical steps in fabrication of removable dentures using conventional and unconventional techniques
- CO-5. Design removable and fixed partial dentures on models for different clinical situations
- CO-6. Explore a new technique/procedure /material for the fabrication of removable dental prosthesis

### Course Outcomes (COs)

**Course Title & Code: Clinical Phase Intermediate (PRC502A)**

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

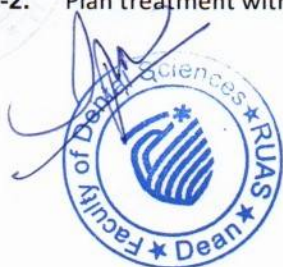
- CO-1. Discuss differential diagnosis and treatment planning for partially edentulous conditions
- CO-2. Plan a multidisciplinary approach to receive removable prosthesis
- CO-3. Demonstrate the clinical and laboratory steps for fabrication of cast partial and unconventional dentures and restore intraoral maxillofacial defects with appropriate prosthesis
- CO-4. Perform clinical and laboratory steps for fixed prosthodontics including surgical placement of single implant in cadavers/models
- CO-5. Diagnose temporomandibular joint disorders for multidisciplinary management
- CO-6. Explore alternative methods of rehabilitating patients with esthetic and functional needs

### Course Outcomes (COs)

**Course Title & Code: Clinical Phase Advanced (PRC503A)**

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

- CO-1. Discuss the principles of full mouth rehabilitation and formulate comprehensive treatment plan for interdisciplinary prosthodontic treatment
- CO-2. Plan treatment with implant supported prosthesis



- CO-3. Perform full mouth rehabilitation using appropriate prosthodontic modality
- CO-4. Restore extraoral maxillofacial defects with appropriate prosthesis
- CO-5. Employ prosthodontic practice management principles including comprehensive written communication to laboratory personnel
- CO-6. Evaluate emerging trends in prosthodontics and innovate diagnostic aid/treatment method to simplify prosthodontic therapy

## 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:**

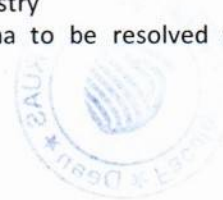
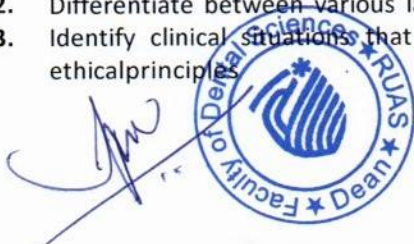
- CO-1. Explain the concept of interpersonal effectiveness
- CO-2. Identify the nuances of working in teams, conflict handling, and time management
- CO-3. Apply the principles of interpersonal communication towards professional betterment
- CO-4. Apply time management tools for optimal usage of time

## 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:

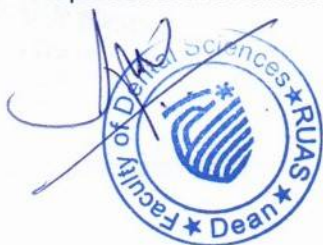
- CO-1. Work in a team and undertake a project in their area of specialization
- CO-2. Apply the design methods and techniques for executing the project
- CO-3. Apply appropriate methodology while formulating a project

### 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

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