



# Programme Specifications

## MDS Programme

Programme:  
Oral and Maxillofacial Surgery

Department:  
Oral and Maxillofacial Surgery

Faculty of Dental Sciences  
M.S. Ramaiah University of Applied Sciences

### Programme Specifications: Oral & Maxillofacial Surgery

<b>Faculty</b>	Dental Sciences
<b>Department</b>	Oral & Maxillofacial Surgery
<b>Programme</b>	Master of Dental Surgery
<b>Dean of Faculty</b>	Dr B V Sreenivasa Murthy
<b>Head of Department</b>	Dr Kavitha Prasad

1 **Title of The Award**

MDS in Oral & Maxillofacial Surgery

2 **Modes of Study**

Full Time

3 **Awarding Institution /Body**

M.S. Ramaiah University of Applied Sciences

4 **Joint Award**

Not Applicable

5 **Teaching Institution**

Faculty of Dental Sciences, M.S. Ramaiah University of Applied Sciences

6 **Programme Approved date by the Academic Council of the University**

May 2018

7 **Next Review Date:**

April 2021

8 **Programme Approving Regulating Body and Date of Approval**

Dental Council of India (DCI) MDS Regulations dated September 5, 2017 vide No. DE-87-2017

9 **Programme Accredited Body and Date of Accreditation**

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10 **Grade Awarded by the Accreditation Body**

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11 **Programme Accreditation Validity Duration**

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12 **Programme Benchmark**

Dental Council of India (DCI) MDS Regulations dated September 5, 2017 vide No. DE-87-2017

#### 14 **Rationale for the Programme**

Oral and Maxillofacial Surgery is a specialty which addresses a wide range of problems involving the Head and Neck region which has an impact on the overall health and well-being of the individual. The scope of this specialty is very extensive; from the surgical removal of unsalvageable and impacted teeth, pre-prosthetic surgery and implants to management of maxillofacial space infections, maxillofacial pathology, maxillofacial trauma, orofacial pain, oral cancer, aesthetic facial problems, temporomandibular joint disorders, cleft lip and palate and the like. Also of great importance is the multidisciplinary team approach in the management of these problems by coordinating with the other dental specialties as well as with allied specialties such as anesthesia, neurosurgery, general surgery, otolaryngology, plastic surgery, ophthalmology, medical and radiation oncology and so on.

In the Indian Scenario, the need for the basic maxillofacial surgeon is of prime importance. The common surgical problems have to be skillfully and comprehensively addressed at the grass root level at the primary health care centers. This will definitely impact the rural sector positively where provision of preventive and therapeutic care has multiple barriers including lack of awareness, access to oral care and unaffordability.

Specialized intensive clinical and surgical training in this field is mandatory to treat these complex maxillofacial problems and also effectively interact with other allied disciplines to provide holistic care. Higher surgical training in Oral oncology, Aesthetic Facial Surgery and Cleft and Craniofacial problems is fast gaining importance.

Considering the complexity and multidisciplinary nature of the problems involved, continuous lifelong learning through scientific interactions and both basic and clinical research is required for better and more effective treatment solutions. Today, the need of the hour is to train students intensively in the management of oral and maxillofacial problems at the basic level as well as to provide higher surgical training to manage complex craniomaxillofacial problems so that it is all encompassing.

#### 15 **Educational Aims of the Programme**

Master's degree programme in Oral and Maxillofacial Surgery is designed to impart training based on sound professional knowledge coupled with basic surgical skills to enable the student to competently diagnose and treat oral surgical problems. Students will be trained to acquire advanced theoretical and application skills in all facets of Oral and Maxillofacial Surgery; high order skills in analysis, critical evaluation, professional clinical application; and the ability to solve complex problems and think rigorously and independently. The programme will develop a sense of confidence in their surgical skills and clinical judgment and encourage a desire for continuation of professional study and self-improvement. The students are encouraged to meet the human resources requirements in the area of Oral and Maxillofacial Surgery; in oral health care research, in academics and teaching career, specialty practice and also pursue further training through fellowship and continuing education programmes.

## 16. Programme Aims and Objectives

The Programme aims to prepare the dental surgeons for a career in Oral and Maxillofacial Surgery. The programme will equip the students with a standard pattern of intelligent history taking, clinical examination, critical analysis of case findings, judicious utilization of appropriate diagnostic aids, all directed towards sound diagnosis and treatment of an oral surgical problem. The Programme imparts basic surgical training based on sound principles. It also trains students on personal development, interactive skills with professionals and to respond to the needs of the society.

The specific Programme aims are to:

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

## 17. Intended Learning Outcomes of the Programme

The intended learning outcomes are listed under four headings

1. Knowledge & Understanding
2. Cognitive Skills
3. Clinical Skills
4. Transferable/Capability skills

### **Knowledge & Understanding**

After undergoing this Programme, a student will be able to:

KU1: Describe the clinical features, patho physiology, investigations, medical management of oral conditions

KU2: Discuss surgical management of trauma, pathologies and deformities

KU3: Demonstrate the use of equipments and instruments for various surgical procedures

KU4: Compare and contrast the differentiating features of clinical conditions

### **Cognitive Skills**

After undergoing this Programme, a student will be able to:

CS1: Discuss treatment options for Oral and Maxillofacial conditions

CS2: Assess available investigative methods and procedures

CS3: Interpret the clinical and laboratory data to arrive at a definitive diagnosis

CS4: Apply surgical principles in the treatment procedures

### **Clinical skills**

After undergoing this Programme, a student will be able to:

PS1: Employ Local anaesthetic techniques and apply other methods of anaesthesia

PS2: Prevent, recognize and manage various medical emergencies

PS3: Provide primary care in oral and maxillofacial emergencies

PS4: Perform oral surgical procedures commonly associated with the maxillofacial region

**Transferable Skills**

After undergoing the Programme, a student will be able to:

TS1: Take responsibility to overcome difficult situations

TS2: Develop a research project and make presentations

TS3: Develop an attitude to work in a team for a multidisciplinary approach

TS4: Work in a hospital based setup

**18 Programme Structure**

Entire postgraduate program is a 3-year program comprising of 6 terms of 26 weeks each. Every term can be a combination of modules including Programme Specialization Module, Research Module, Faculty Common Module and an Elective Module. Each Programme specialization module will include one week of assessment. The following are the modules a student is required to successfully complete for the award of the degree

	Module Title	Module code	Credits
<b>Programme specialization modules</b>			
1	Preclinical phase	PGCONS01	24
2	Clinical Phase Basics – 1	PGCONS02	24
3	Clinical Phase Basics – 2	PGCONS03	24
4	Clinical Phase Advanced - 1	PGCONS04	24
5	Clinical Phase Advanced - 2	PGCONS05	24
6	Clinical Phase Advanced - 3	PGCONS06	20
<b>Research modules</b>			
1	Research Methodology	PGRM01	2
2	Short term project/Group project	PGRM02	6
3	Library Dissertation	PGRM03	4
4	Dissertation	PGRM04	18
5	Conference presentation	PGRM05	1
6	Journal publication	PGRM06	1
<b>Faculty Common Modules</b>			
1	Clinical photography	PGFCM01	1
2	Basic and advanced life support	PGFCM02	1
3	Personality Development and Soft Skills	PGFCM03	1
4	Law for Dental Professionals	PGFCM04	1
<b>Elective module</b>			
1	Training in any other institution in India or Abroad	PGEM01	3
2	Teacher training Module	PGTTM	1
	<b>TOTAL</b>		<b>180</b>

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**18. Module Delivery Structure**

The module is delivered Monday to Saturday of the week according to time table including mandated library/laboratory time towards self- directed learning.

**19 Teaching Learning Methods**

Teaching and Learning Methods

1. Team Teaching/ Integrated Teaching
2. Face to Face Lectures using Audio-Visuals
3. Seminars/journal clubs/e-lectures
4. Case Based Discussions
5. Group Discussions, Debates, Presentations
6. Demonstrations on videos, computers and models
7. Clinical based learning
8. Hospital based learning
9. Laboratory work
10. Dissertation/ Group Project work
11. School visits/Outreach center visits
12. Interdepartmental meets
13. Continuing dental education programs/symposiums/workshops
14. State/National/International conferences and conventions

**20 Research modules**

Research modules are

**1. Research Methodology**

Every student shall be trained in Research Methodology in a workshop prior to starting any research project.

**2. Library dissertation**

Each student is expected to survey, review and critically appraise scientific literature. The students will be able to use various search engines to identify and select literature with good scientific value. This module emphasizes the student to apply good practices and guidelines of a systematic and structured literature review to collect, comprehend, sort and document the available information in open literature. In the context of reviewed contemporary research work, student acquires wider breadth of knowledge and will be able to formulate research question to be addressed in the main dissertation. The module insists on the preparation and submission of manuscript for publication.

**3. Short term or Group Project**

Each student is expected to carry out either a short term project in their own specialty or conduct an interdisciplinary research project as a group project. The students can choose a project from the priority areas of research of the concerned department or the Faculty and submit the synopsis of the intended project for review. A group will not have more than 5 students. The purpose of group project is that the group should be able to design a multidisciplinary research project. The students are required to develop a report for assessment and also finalise the report in form of a manuscript and submit to the constituted

committee. A committee constituted by the Academic Registrar of the Faculty shall review the synopsis of the intended research project and progress of the research project till completion.

#### **4. Dissertation**

A student should choose a project from the priority areas of research for the department and submit the finding in the form of a dissertation.

#### **5. Conference presentation**

Each student is expected to present the findings of the short-term project/group project or dissertation at the National conference of the specialty or at related disciplines. During the Programme of MDS in three years, a student is mandatorily required to present a minimum of two poster/ table clinic and two paper.

#### **6. Journal Publication**

Each student shall have submitted the manuscript of the dissertation by the end of the MDS programme before component 2.

### **21 Elective Module**

Elective modules are

#### **1. Training in any other university**

A student can undergo training in any other university or any other organisation in a specific Programme area that falls under the broad category of his specialization either in India or abroad for two weeks. He/she need to submit a complete report on the training undergone and also make a presentation to a team of examiners as per the guidelines laid by the University.

#### **2. Teacher Training Module**

A student can undergo training in principles of pedagogy and Health profession education to prepare for a career in academics. He/she need to submit a complete report on the training undergone and also make a presentation to a team of examiners as per the guidelines laid by the University.

### **22 Faculty common modules**

Each student is expected to undergo training in the following modules as an value added skill for his/her post-graduation

- a. Basic and Advanced Life Support
- b. Personality Development and Soft Skills
- c. Clinical Photography
- d. Law for Dental Professionals

Module specifications will contain details of aim and summary, intended learning outcomes, contents, delivery and assessment.

### **25 Assessment and Grading**

#### **Programme specialization Teaching Module (PSTM) 1 - 6**

There are two components-

Component 1 (Continuous Evaluation of Module CEM) for PSTM 1-6

Component 2 (Programme End Exam CEE),



**a. Component 1 ( Continuous Evaluation of Module - CEM) for PSTM 1-5 except 2: 200 marks**

There are 2 components in this module

- i. Theory component consisting of
  - a. Assignment to be submitted as a word processed document for 50 marks
  - b. Assessment as a written examination for 50 marks
- ii. Clinical component consisting of
  - a. Clinical case discussion/clinical examination for 80 marks
  - b. Viva Voce for 20 marks on the module content including assignment.

**b. Component 1 ( Continuous Evaluation of Module - CEM) for PSTM 2: 200 marks**

There are 2 components in this module

- i. Theory component consisting of
  - a. Assignment to be submitted as a word processed document for 100 marks
- ii. Clinical component consisting of
  - a. Clinical case discussion/clinical examination for 80 marks
  - b. Viva Voce for 20 marks on the module content including assignment.

**c. Component 1(Continuous Evaluation of Module – CEM) for PSTM 6: 600 marks**

- i. Theory component consisting of 3 Papers same as Part II of component 2
- ii. Structured clinical exam for different exercises will be assessed for 200 marks same as component 2.
- iii. Structured Viva Voce exam for 80 marks and pedagogy for 20 marks will be conducted during clinical exam
  - a. .

**b. Component 2 (Programme End Exam): 700 marks**

Component 2 shall have a theory component, Clinical Component, Pedagogy and Viva Voce.

**Theory component**

Written examination shall consist of Basic Sciences (Part-I) of three hours duration shall be conducted at the end of First year of MDS Programme. Part-II Examination shall be conducted at the end of Third year of MDS Programme. Part-II Examination shall consist of Paper-I, Paper-II and Paper-III, each of three hours duration. Paper-I & Paper-II shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Paper-III will be on Essays. In Paper-III three Questions will be given and student has to answer any two questions. Each question carries 50 marks. Questions on recent advances may be asked in any or all the papers. Distribution of topics for each paper will be as follows:

**Part-I**

Paper-I : Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

**Part-II**

Paper-I : Minor Oral Surgery and Trauma

Paper-II : Maxillofacial Surgery

Paper-III : Descriptive and analyzing type questions



**Clinical Component**

Structured clinical exam for different exercises will be assessed for 200 marks.

- i. Case discussion and performing surgical removal of impacted mandibular third molar – 100 marks
- ii. Case discussion and treatment planning of one major surgical case - 60 marks
- iii. Case discussion and treatment planning of two minor surgical case - 40 marks

**Pedagogy and Viva voce Component**

Structured Viva Voce exam for 80 marks and pedagogy for 20 marks will be conducted during clinical exam.

**Research, Faculty common, elective modules :**

These modules will be assessed as per the assessment norms as specified in the module specification. The assessment for these modules is through tests, presentations or any other method as specified in the module specification.

**24 Eligibility, Failure and Readmissions**

In case of Programme specialization teaching modules 1 – 5,

- The student is eligible for the next Programme specialization module on satisfaction of attendance requirement and obtaining 50% in Component 1.
- If a student fails in component 1, he/she is required to take up the re-sit examination in component 1 in the next opportunity with the permission of the HoD, Academic Registrar of the faculty and the Dean by paying the requisite fees.

Assessment and pass criteria for Research, Faculty common, Elective modules is set in the module specifications and followed accordingly.

**25 Attendance**

In case of Programme Specialization Teaching Module, a student is required to have a minimum attendance of 85% to be eligible to write the examination. However the Dean in consultation with HOD can condone up to 10% under special circumstances. Students who fail to achieve the minimum attendance is required to Re-Register, attend the module and take up all the components of assessment at the next offering. In case of Research modules, Faculty common modules and electives, the attendance requirement is specified in the respective module specification document.

**26 Award of Class**

As per the Academic Regulations of MDS programme

**27 Student support for Learning**

1. Module Notes
2. Reference Books in the Library
3. Magazines and Journals
4. Internet Facility
5. Computing Facility
6. Laboratory Facility
7. Staff support

8. Any other support that enhances their learning

## 28 Quality Control Measures

1. Review of Module Notes
2. Review of Question Papers and Assignment Questions
3. Student Feedback
4. Moderation of assessed work
5. Opportunities for students to see their assessed work
6. Staff Student Consultative Committee Meetings
7. Student exit feedback
8. Subject Assessment Board(SAB)
9. Programme Assessment Board(PAB)

## 31 Curriculum Map

Module Code	Knowledge & Understanding				Cognitive Skills				Clinical Skills			
	KU1	KU2	KU3	KU4	CS1	CS2	CS3	CS4	PS1	PS2	PS3	PS4
PGOMFS01	X	-	-	-	-	-	-	X	X	-	-	-
PGOMFS02	X	X	X	X	X	X	X	X	X	X	X	X
PGOMFS03	X	X	X	X	X	X	X	X	X	X	X	X
PGOMFS04	X	X	X	X	X	X	X	X	X	X	X	X
PGOMFS05	X	X	X	X	X	X	X	X	X	X	X	X
PGOMFS06	X	X	X	X	X	X	X	X	X	X	X	X
PGRM01	-	-	-	X	-	-	-	X	-	-	-	-
PGRM02	X	X	X	X	X	X	X	X	X	X	X	X
PGRM03	X	X	X	X	X	X	X	X	X	X	X	X
PGRM04	X	X	X	X	X	X	X	X	X	X	X	X
PGRM05	X	X	X	X	X	X	X	X	X	X	X	X
PGRM06	X	X	X	X	X	X	X	X	X	X	X	X
PGFCM01	X				X							
PGFCM02					X	X	X	X	X	X	X	X
PGFCM03												
PGFCM04												
PGEM01				X	X	X	X	X	X	X	X	X
PGEM02					X	X	X	X	X	X	X	X

32 **Capability Map**

Module Code	Group work	Self learning	Research Skills	Written Communication Skills	Verbal Communication Skills	Presentation Skills	Behavioral Skills	Information Management	Personal management/ Leadership Skills
PGOMFS01	X	X	X	X	X	X	X	X	
PGOMFS02	X	X	X	X	X	X	X	X	X
PGOMFS03	X	X	X	X	X	X	X	X	X
PGOMFS04	X	X	X	X	X	X	X	X	X
PGOMFS05	X	X	X	X	X	X	X	X	X
PGOMFS06	X	X	X	X	X	X	X	X	X
PGRM01	X	X	X	X	X	X	X	X	X
PGRM02	X	X	X	X	X	X	X	X	X
PGRM03	X	X	X	X	X	X	X	X	X
PGRM04	X	X	X	X	X	X	X	X	X
PGRM05	X	X	X	X	X	X	X	X	X
PGRM06	X	X	X	X	X	X	X	X	X
PGFCM01	X	X	X	X	X	X	X	X	X
PGFCM02	X	X	X	X	X	X	X	X	X
PGFCM03	X	X	X	X	X	X	X	X	X
PGFCM04	X	X	X	X	X	X	X	X	X
PGEM01	X	X	X	X	X	X	X	X	X
PGEM02	X	X	X	X	X	X	X	X	X

33 **Co curricular Activities**

Students are encouraged to take part in co-curricular activities like seminars, conferences, symposium, paper writing, attending industry exhibitions, project competitions and related activities to enhance their knowledge and network.

34 **Cultural and Literary Activities**

To remind and ignite the creative endeavors, annual cultural festivals are held and the students are made to plan and organise the activities

35 **Sports and Athletics**

Students are encouraged to engage in routine physical activities and also take part in annual sports and athletic events.

