



# 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**  
February 2015
- 7 **Next Review Date:**  
January 2018
- 8 **Programme Approving Regulating Body and Date of Approval**  
Dental Council of India(DCI)
- 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**  
DCI - New Delhi: Oral & Maxillofacial Surgery Course

**13 Date of Programme Specifications**

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**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 anaesthesia, 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 Programme Mission**

Masters 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 Goal

The Programme goal is to produce graduates with critical, analytical and problem solving skills and ability to think independently in pursue in Oral & Maxillofacial Surgery

## 17. 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:

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

## 18. Programme Intended Learning Outcomes

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: Diagnose provisionally and discuss treatment options for Oral and Maxillofacial conditions
- PS2: Prevent, recognize and manage various medical emergencies
- 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

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: Manage information, develop technical reports and make presentations

TS2: Build, Manage and Lead a team to successfully complete a project and communicate across teams and organizations to achieve professional objectives

TS3: Work under various constraints to meet project targets

TS4: Adopt to the chosen profession by continuously upgrading his/her knowledge and understanding through Life-long Learning philosophy

### 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 be followed by one week of assessment and assignment. Every student can avail 2 weeks of vacation once a year during the assignment subject to approval of the head of the department. Every module will also have one-week duration allotted for National Conference and Post Graduate Convention. The following are the modules a student is required to successfully complete for the award of the degree

	Module type	Module code	Module Title	Credits
<b>Term 1</b>				
1	Programme specialization modules	PGOMFS01	Preclinical phase	24
2	Faculty-Common Modules	PGFCM01	Clinical photography	1
3	Faculty-Common Modules	PGFCM02	Basic and advanced life support	1
4	Faculty-Common Modules	PGFCM03	Personality Development and Soft Skills	1
5	Faculty-Common Modules	PGFCM04	Ethics and Professionalism	1
6	Research modules	PGRM01	Research Methodology	2
<b>Term 2</b>				
1	Programme specialization modules	PGOMFS02	Clinical Phase Basics – 1	24
2	Research modules	PGRM02	Short term project/Group project	6
<b>Term 3</b>				
1	Programme specialization modules	PGOMFS03	Clinical Phase Basics – 2	24
2	Elective module	PGEM01	Training in MSRUAS	1
3	Research modules	PGRM03	Library Dissertation	4
4	Research modules	PGRM05	Conference presentation	1
<b>Term 4</b>				
1	Programme specialization modules	PGOMFS04	Clinical Phase Advanced - 1	24
2	Elective module	PGEM02	Training in any other institution in India or Abroad	3
3	Research modules	PGRM04	Dissertation	8
<b>Term 5</b>				
1	Programme specialization modules	PGOMFS05	Clinical Phase Advanced - 2	24
2	Research modules	PGRM04	Dissertation	10
3	Research modules	PGRM06	Journal publication	1
<b>Term 6</b>				

<b>1</b>	Programme specialization modules	PGOMFS06	Clinical Phase Advanced- 3	20
<b>TOTAL</b>				180

<b>Programme Delivery Structure</b>			
The following table explains the programme time table			
<b>Week</b>	<b>Teaching Learning Activity</b>	<b>Research Activity</b>	<b>Supporting Activity</b>
<b>Term 1</b>			
1-22	PGOMFS01-Preclinical phase		National Conference
23	Assessment & Assignments		
24-25			PGFCM01 - Clinical photography
			PGFCM02 -Basic and advanced life support
			PGFCM03 -Personality Development and Soft Skills
			PGFCM04 – Ethics and professionalism
26		PGRM01 - Research Methodology	
<b>Term 2</b>			
1-22	PGOMFS02 - Clinical Phase Basics – 1	Start of Library dissertation Submission of synopsis for Short term project /Group project	Postgraduate Convention
24	Assessment & Assignments		
25-26		PGRM03 – Submission of Library Dissertation PGRM04 - Submission of synopsis for Dissertation	
<b>Term 3</b>			
1-22	PGOMFS03 - Clinical Phase Basics – 2	PGRM05 - Conference presentation	National Conference
23	Assessment & Assignments		
24		PGEM01 - Training in MSRUAS	
25-26		PGRM02 - Submission of Short term project /Group project	
<b>Term 4</b>			
1-22	PGOMFS04 - Clinical Phase Advanced – 1		Postgraduate Convention
23		PGRM04 - Review of Dissertation	
24	Assessment & Assignments		
25- 26		PGEM02 - Training in any other institution in India or Abroad	
<b>Term 5</b>			
1-22	PGOMFS05 - Clinical Phase Advanced – 2	PGRM06- Journal Publication	National Conference
23	Assessment & Assignments		
24-26		PGRM04 - Submission of Dissertation	
<b>Term 6</b>			
1-18	PGOMFS06 - Clinical Phase Advanced – 3		
19 -24	Study Leave		
25-26	Assessment		

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**20. 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.

**21 Teaching Learning Methods**

Teaching and Learning Methods

1. Interactive Teaching Learning methods
2. Team Teaching/ Integrated Teaching
3. Case Based Discussions
4. Face to Face Lectures using Audio-Visuals
5. Seminars/journal clubs/e-lectures
6. Group Discussions, Debates, Presentations
7. Interdepartmental meets
8. Continuing dental education programs/symposiums/workshops
9. Clinical / Practicals
10. Mini Clinical Exercise, Direct Observation of Procedural skills
11. Laboratory-work Demonstrations
12. Case Discussions
13. School visits/Outreach center visits
14. Project work
15. State/National/International conferences and conventions

**22 Research modules**

Research modules are

**1. Research Methodology**

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

**2. Library dissertation**

Each student is expected to submit a report on literature review to arrive at a research question for the dissertation.

**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. The detail procedure and evaluation procedure will be provided in student handbook.



**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. The detail procedure of executing and assessing individual project is specified in student handbook.

**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 course of MDS in three years, a student is mandatorily required to present a minimum of one poster/ table clinic and one paper.

**6. Journal Publication**

Each student shall have submitted at least one publication at the time of appearing at CEE. The publication can be a review, original research or case report in a peer reviewed, indexed journal.

**23 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 subject 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.

**2. Training in MSRUAS**

A student can undergo training in any other Faculty of the University for one week to hone skills necessary for career. He/she need to submit a complete report on the training undergone and also make a presentation to a team of examiners.

**24 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. Ethics and Professionalism

Module specifications will contains 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 1-5

Component 2 (Course End Exam CEE) for PSTM 6,

**1. Component 1 ( Continuous Evaluation of Module CEM): 600 marks for module 1 to 5**

- ii. Every module will be assessed for 120 marks; assessment in theory for 40 marks, in practicals

/clinical for 40 marks and an assignment for 40 marks

- a. Component 1A will be as assessment in theory for 20 marks conducted at the end of module while 20 marks will be assigned for seminars, journal clubs, or any other such academic activity conducted during the module.
- b. Component 1B will be assessments in regular chair side discussions of practicals/clinical for 20 marks and viva voce marks for 20 marks.
- c. Component 1C will be an Assignment that will be submitted as a report followed by presentation for 40 marks.

## **2. Component 2 (Course End Exam CEE): 600 marks**

At the end of the 6<sup>th</sup> module, a Course end exam will be held as per the norms of the University/DCI for Assessment.

### **1. Assessment for theory will for 300 marks consisting of 4 papers as specified by DCI.**

- i. Paper 1: Applied Anatomy, Physiology, Pathology, Microbiology, Nutrition and Dietetics
- ii. Paper 2: Minor oral Surgery and trauma
- iii. Paper 3: Maxillofacial Surgery and oral Implantology
- iv. Paper 4: Oral and maxillofacial surgery – essay

### **2. A structured viva voce exam for 80 marks and a pedagogy for 20 marks will be conducted during practical exam.**

### **3. 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 mark
- ii. Case discussion and treatment planning of one major surgical case - 60
- iii. Case discussion and treatment planning of two minor surgical case - 40

### **Research, Faculty common, elective modules : 600 Marks**

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

## **26 Eligibility, Failure and Readmissions**

In case of programme specialization teaching modules 1 – 5, the student is eligible for the next specialization module on satisfaction of attendance requirement and obtaining 40% in Component 1. If a student fails in component 1, he/she is required to take up the resit examination in theory and viva for the module when offered prior to the next Programme specialization teaching module by paying the requisite fees. In case, the student is unable to submit assignment and attend assessment at the end of the Programme specialization module, with due considerations (on a case to case basis) to the underlying circumstances, the student may be permitted to appear for the Resit examination in assignment, theory and viva voce with the permission of the Dean of the Faculty and Academic Registrar of the University. Assessment and pass criteria for Research, Faculty common, Elective modules is set in the module specifications and followed accordingly

## **27 Attendance**

A student is required to have a minimum of 85% attendance to be eligible to write the examination. Less than 85% attendance is considered to be FAIL; such a student is required to follow the same procedure as that of a failed student.

**28 Award of Class**

As per the programme regulations

**29 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. Lounges for Discussions
9. Any other support that enhances their learning

**30 Quality Control Measures**

1. Review of Subject 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. Review by external examiners and external examiners reports
7. Staff Student consultative committee meetings
8. Student exit feedback
9. Subject Assessment Board(SAB)
10. 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									
PGFCM01									
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.

