



# Programme Specifications

## MDS Programme

Programme:  
Public Health Dentistry

Department:  
Faculty of Dental Sciences

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

**Programme Specifications: Public Health Dentistry**

<b>Faculty</b>	Dental Sciences
<b>Department</b>	Public Health Dentistry
<b>Programme</b>	Master of Dental Surgery
<b>Dean of Faculty</b>	Dr B V Sreenivasa Murthy
<b>Head of Department</b>	Dr K Pushpanjali

**1 Title of The Award**

MDS in Public Health Dentistry

**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

### 13 **Rationale for the Programme**

The present Global scenario has recognized Dental Public health as a core component of the undergraduate dental curricula. This recognition acknowledges that Dental Public Health is an important subject relevant to practice of dentistry.

Oral diseases are few of the most prevalent health problems throughout the world. Dental caries and periodontal disease represent most of the problem, but edentulism, oral cancer, orodental trauma, malocclusion and craniofacial anomalies also contribute to the burden.

Demographic shifts have resulted in differing trends in disease burden among place, person more so pertaining to economic status of the country. These scenarios pose challenging situations and have prompted each of the country to adopt methods relevant to their scenario at political level and community level to combat the disease burden. This burden with differing determinants provides opportunities for research to plan implementation strategies relevant to their scenarios. Currently, communities are recognizing the need for broad and diverse input into promotion of oral health. Hence, Graduates with adequate skills in terms of initiating public/private partnerships, community coalitions and volunteerism and new health communication strategies such as social marketing and media advocacy are required for being incorporated into public health approaches to improving oral health.

This is the specialty which addresses the problems at community level adopting whole population strategy, targeted approach and risk group approach. This substantiates the need for training more graduates to meet these challenges.

### 14 **Educational Aims of the Programme**

Master in Public Health dentistry is designed to equip the graduates with necessary skills (communication, social, political), to identify and to ascertain the burden and plan intervention appropriately. The competencies acquired in terms application, evaluation and synthesis of knowledge will enable the graduate to initiate intervention as, advocacy at Government level, lobby efforts with professional bodies and also at community and individual level. They are also equipped to demonstrate leadership qualities in organizing community based programs and act as effective link between Public and community, working in partnership with different sectors. In a nutshell the graduate should be able to demonstrate transferable skills in his future career prospects. To communicate and work across agencies and function as effective change agents and able to integrate oral health strategies into existing and ongoing public health programs.

### 15. **Programme Aims and Objectives**

The Programme aims to prepare the students for a career in Public Health Dentistry at academic levels and National and International health agencies. This Programme aims to impart students with analytical and problem solving skills with adequate competency in epidemiology and statistical applications.

The specific Programme objectives:

1. To enable students to estimate oral disease burden following the principles of epidemiology

2. To enable students to discuss public health and its significance at national and global level
3. To develop promotive interventions for addressing oral diseases at individual and community level
4. To demonstrate leadership qualities while organizing and implementing community programs
5. To enable students to apply appropriate measures in terms of advocacy, lobby efforts or interventions (Policy changes) at community level
6. To demonstrate the competencies and skills essential to function as an effective Public Health Dentist

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**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 and Understanding:**

After undergoing this Programme the student should be able to:

KU1: Describe methods and tools for estimating disease burden in the community

KU2: Interpret the findings of community oral health survey

KU3: Explain the process to be adopted in planning a programme for the estimated disease burden or health condition

KU4: Describe the process to be adopted for evaluating the community oral health programme

**Cognitive Skills:**

After undergoing this Programme the student should be able to:

CS1: Develop new methods and tools for estimating disease burden/health condition in the community

CS2: Plan a comprehensive oral healthcare programme/plan for the community and individual and implement the same

CS3: Organize community health program by applying principles of Oral Health promotion

CS4: Analyse data collected from Public Health Programmes for cost benefit and cost effectiveness

**Clinical skills:**

After undergoing this Programme the student should be able to:

PS1: Conduct risk assessment at both individual and community levels

PS2: Perform comprehensive oral health care for individuals

PS3: Implement community health programmes effectively

PS4: Implement situation specific preventive interventions

**Transferrable Skills:**

After undergoing this Programme the student should be able to:

TS1: Work in Hospital based set up in liaison with medical set up

TS2: Conduct research and disseminate the findings to stake holders

TS3: Initiate advocacy and lobby efforts to address issues pertaining to oral health

TS4: Play leadership roles for community healthcare implementation programmes

17 **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

	<b>Module Title</b>	<b>Module code</b>	<b>Credits</b>
<b>Programme specialization Teaching Modules</b>			
1	Preclinical phase	PGPHD01	24
2	Clinical Phase Basics – 1	PGPHD02	24
3	Clinical Phase Basics – 2	PGPHD03	24
4	Clinical Phase Advanced - 1	PGPHD04	24
5	Clinical Phase Advanced - 2	PGPHD05	24
6	Clinical Phase Advanced - 3	PGPHD06	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 Modules</b>			
1	Interuniversity elective	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 course 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

**2. 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 course. Part-II Examination shall be conducted at the end of Third year of MDS course. 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 and Histology, Applied Physiology and Biochemistry, Applied Pathology, Microbiology, Oral Pathology, Physical and Social Anthropology, Applied Pharmacology and Research Methodology and Biostatistics

**Part-II**

Paper-I : Public Health

Paper-II : Dental Public Health

Paper-III : Descriptive and analyzing type questions

**Clinical Component**

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



1. Recording of Case history for at least two patients , who represent the community (To use two relevant indices for the assessment of oral health) and presentation of the observation - 50 Marks
2. Clinical Procedure - 50 Marks
  - a. One of the treatment procedures as per treatment plan. (Restorative, surgical, rehabilitation)
  - b. Preventive oral health care procedure
  - c. One of the procedures specified in the curriculum.
3. Critical evaluation of a given research article published in an international journal - 50 Marks
4. Problem solving - a hypothetical oral health situation existing in a community is given with sufficient data. The student as a specialist in community dentistry is expected to suggest practical solutions to the existing oral health situation of the given community – 50 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)

**29 Curriculum Map**

Module Code	Knowledge & Understanding				Cognitive Skills				Clinical Skills			
	KU1	KU2	KU3	KU4	CS1	CS2	CS3	CS4	PS1	PS2	PS3	PS4
PGPHD01	X	-	-	-	-	-	-	X	X	-	-	-
PGPHD02	X	X	X	X	X	X	X	X	X	X	X	X
PGPHD03	X	X	X	X	X	X	X	X	X	X	X	X
PGPHD04	X	X	X	X	X	X	X	X	X	X	X	X
PGPHD05	X	X	X	X	X	X	X	X	X	X	X	X
PGPHD06	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				X		X					X	
PGFCM04				X						X		
PGEM01				X	X	X	X	X	X	X	X	X
PGEM02					X	X	X	X	X	X	X	X

30 **Capability Map**

Module Code	Group work	Self learning	Research Skills	Written Communication	Verbal Communication	Presentation Skills	Behavioral Skills	Information Management	Personal management/ Leadership Skills
PGPHD01	X	X	X	X	X	X	X	X	
PGPHD02	X	X	X	X	X	X	X	X	X
PGPHD03	X	X	X	X	X	X	X	X	X
PGPHD04	X	X	X	X	X	X	X	X	X
PGPHD05	X	X	X	X	X	X	X	X	X
PGPHD06	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
PGFCM01			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 organize 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.

