



# SRM

INSTITUTE OF SCIENCE & TECHNOLOGY  
— Deemed to be University —

**MASTER OF DENTAL SURGERY (M.D.S.) DEGREE-**

**REGULATIONS -2017**

(For students admitted from 2017 - 2018 onwards)

**ORAL MEDICINE AND RADIOLOGY**

**FACULTY OF MEDICINE AND HEALTH SCIENCES  
SRM Institute of Science and Technology  
(Formerly Known as SRM UNIVERSITY)  
Kattankulathur – 603 203**

**REGULATIONS -2017**  
**MASTER OF DENTAL SURGERY (M.D.S.)**  
**ORAL MEDICINE AND RADIOLOGY**

**1. SHORT TITLE AND COMMENCEMENT:**

These regulations shall be called '**MASTER OF DENTAL SURGERY REGULATIONS 2017**' under SRM Institute of Science and Technology, Kattankulathur, Kancheepuram District, Tamilnadu. The regulations are in compliance to the Dental Council of India Master of Dental Surgery course regulations 2017 released in the Gazette of India dated 05.09.2017. The same has been placed and approved by the 36<sup>th</sup> Academic council meeting of SRM Institute of Science and Technology held on 25.10.2017.

The regulations shall come into force for the candidates admitted from the academic year 2017-2018 onwards.

**DEFINITIONS:**

**ORAL MEDICINE AND RADIOLOGY**

Oral Medicine is that specialty of dentistry concerned with the basic diagnostic procedures and techniques useful in recognizing the diseases of the oral tissues of local and constitutional origin and their medical management.

Radiology is a science dealing with x-rays and their uses in diagnosis and treatment of diseases in relation to orofacial diseases

**NEET:**

NEET means the National Eligibility –cum-Entrance Test conducted by the National Board of Examination for admission to post-graduate courses

**2. GOALS & OBJECTIVES:**

**2. A. GOALS**

**The goals of postgraduate training in various specialties are to train B.D.S. graduate who will, after successful completion of the course:**

- ✓ Practice respective specialty efficiently and effectively, backed by scientific knowledge and skill.
- ✓ Exercise empathy and a caring attitude and maintain high ethical standards.
- ✓ Continue to evince keen interest in continuing professional education in the specialty and allied specialties irrespective of whether in teaching or practice.
- ✓ Willing to share the knowledge and skills with any learner, junior or a colleague.
- ✓ Develop the faculty for critical analysis and evaluation of various concepts and views, to adopt the most rational approach.

## **2. B. OBJECTIVES:**

The objective is to train a candidate so as to ensure higher competence in both general and special area of interest and prepare him for a career in teaching, research and speciality practice. A candidate must achieve a high degree of clinical proficiency in the subject matter and develop competence in research and its methodology as related to the field concerned.

The above objectives are to be achieved by the time the candidate completes the course. The objectives may be considered as under -

1. Knowledge (Cognitive domain)
2. Skills (Psycho motor domain)
3. Human values, ethical practice and communication abilities

### **KNOWLEDGE:**

- ✓ Demonstrate understanding of basic sciences relevant to speciality.
- ✓ Describe aetiology, patho-physiology, principles of diagnosis and management of common problems within the speciality in adults and children.
- ✓ Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment.
- ✓ Recognise conditions that may be outside the area of speciality/competence and to refer them to an appropriate specialist.
- ✓ Update knowledge by self study and by attending courses, conferences, and seminars relevant to speciality.
- ✓ Undertake audit, use information technology and carryout research both and clinical with the aim of publishing or presenting the work at various scientific gatherings.

**The students undergoing postgraduate courses shall be exposed to the following:-**

- Basics of statistics to understand and critically evaluate published research papers.
- Few lectures on other type of exposure to human behavior studies.
- Basic understanding of pharmaco-economics.
- Introduction to the non-linear mathematics.

### **SKILLS:**

- ✓ Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reason
- ✓ Diagnosis about the condition.
- ✓ Acquire adequate skills and competence in performing various procedure required in the speciality.

### **HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES:**

- ✓ Adopt ethical principles in all aspects of practice.
- ✓ Professional honesty and integrity are to be fostered.
- ✓ Patient care is to be delivered irrespective of social status, caste, creed or religion of the patient.
- ✓ Develop communication skills, in particular and skill to explain various option available in management and to obtain a true informed consent from the patient
- ✓ Provide leadership and get the best out of his team in a congenial working atmosphere.
- ✓ Apply high moral and ethical standards while carrying out human or animal research.
- ✓ Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
- ✓ Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

### **3. ELIGIBILITY FOR SELECTION CRITERIA OF STUDENTS:**

A candidate for admission to the Master in Dental Surgery course, must possess a recognized degree of **Bachelor in Dental Surgery** awarded by a university or institute in India and registered with the State Dental Council and has obtained provisional or permanent registration and has undergone compulsory rotatory internship of a year in an approved/recognized dental college:

**Provided that in the case of a foreign national, the following procedure shall be followed:—**

The Council may, on payment of the prescribed fee for registration, grant temporary registration for the duration of the post-graduate training restricted to the dental college/institution to which he or she is admitted for the time being exclusively for post-graduate studies:

Provided further that temporary registration to such foreign national shall be subject to the condition that such person is duly registered as medical practitioner in his/her own country from which he/she has obtained his/her basics dental qualification and that his/her degree is recognized by the corresponding state dental council or concerned authority.

### **3. A. SELECTION OF CANDIDATE FOR POST-GRADUATE COURSES:**

There shall be a uniform **NEET** for admission to the post-graduate dental courses in each academic year conducted in the manner, as prescribed by the National Board of Examination or any other authority appointed by the Central Government

in this behalf. The overall superintendence, direction and control of the NEET shall vest with the Council.

**3. B. QUALIFYING CRITERIA FOR ADMISSION TO POST-GRADUATE COURSES :**

- a. The candidate has to secure the following category-wise minimum percentile in NEET for admission to post-graduate courses held in a particular academic year. Provided that the percentile shall be determined on the basis of highest marks secured in the All-India common merit list in NEET for post-graduate courses:

<b>General</b>	<b>50<sup>th</sup> Percentile</b>
Person with locomotor disability of lower limbs	45 <sup>th</sup> percentile
Scheduled castes, Scheduled tribes, other backward classes	40 <sup>th</sup> percentile

Provided further, that when sufficient number of candidates in the respective categories fail to secure minimum marks as prescribed in NEET held for any academic year for admission to post-graduate courses, the Central Government in consultation with the Council may, at its discretion lower the minimum marks required for admission to post-graduate courses for candidates belonging to respective categories and marks so lowered by the Central Government shall be applicable for the said academic year only.

- b. The reservation of seats in dental college/institutions for respective categories shall be as per applicable laws prevailing in States/Union territories. An all India merit list as well as State-wise merit list of the eligible candidates shall be prepared on the basis of the marks obtained in NEET Test and candidates shall be admitted to post-graduate courses from the said merit list only .
- c. A candidate who has failed to secure the minimum percentile as prescribed in these regulations, shall not be admitted to any post-graduate courses in any academic year.

**3. C. COMMON COUNSELING:**

1. There shall be a common counseling for admission to all post-graduate specialties (MDS) on the basis of merit list of the NEET to be conducted by the Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India.

### **3. D. REQUIRED DOCUMENTS:**

No candidate shall be admitted to any Postgraduate MDS course unless the candidate has obtained and produced eligibility certificate issued by University. The candidate has to make an application to the University with the following documents along with the prescribed fee:

- a. BDS pass / degree certificate issued by the University.
- b. Marks cards of all the university examinations passed (I to IV BDS year course).
- c. Attempt Certificate issued by the Principal.
- d. Certificate regarding the recognition of the Dental College by the Dental Council of India.
- e. Completion of paid rotatory internship certificate from a recognized college.
- f. Registration by any State Dental Council and
- g. Proof of SC/ ST or Category I, as the case may be.

Candidates should obtain the Eligibility Certificate before the last date for admission as notified by the University.

A candidate who has been admitted to postgraduate course should register his/ her name in the University within a month of admission after paying the registration fee.

### **4. COURSE OVERVIEW:**

#### **4. A. DURATION OF THE COURSE:**

The Course shall be of three years duration. All the candidates for the degree of MDS are required to pursue the prescribed course for at least three academic years course as full time candidates under the direction of the Head of the Department, who has to be a recognized postgraduate teacher in that specialty

#### **4. B. MAXIMUM DURATION OF THE COURSE:**

The time period required for passing out of the MDS course shall be a maximum of 6 years from the date of admission in said course.

### **5. COMMENCEMENT OF ACADEMIC SESSION:**

The classes for the course shall commence from 1<sup>st</sup> week of May and the cut –off date for admission will be 31<sup>st</sup> May.

## 6. MIGRATION:

Under no circumstances, the migration or the transfer of students undergoing post-graduate degree shall not be permitted by **SRM Institute of Science And Technology** or the authority. No interchange of the specialty in the same institution or in any other institution shall be permitted after the date of commencement of session

## 7. COMMENCEMENT OF EXAMINATION:

Written examination shall consist of Basic Science -Part 1, which will be conducted at the end of 1<sup>st</sup> year of MDS course. Part 2 examination shall be conducted during the 1<sup>st</sup> week of June after completion of 3 years/ 36 months. Examinations for the repeaters /arrearers shall be conducted in the month of December every academic year.

The University shall conduct not more than two examinations in a year, for any subject, with an interval of not less than 4 and not more than 6 months between the two examinations.

## 8. STRUCTURE OF PROGRAM:

<b>M.D.S - Oral Medicine and Radiology</b>		
<b>Subject Code</b>		<b>Subject Title</b>
Part - I		
17MDS911	Part - I	Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics
Part – II		
17MDS921	Paper -1	Oral and Maxillofacial Radiology
17MDS922	Paper -2	Oral Medicine, Therapeutics and Laboratory Investigations
17MDS923	Paper -3	Descriptive and Analysing type question
17MDS924	Paper -4	Practical and Clinical
17MDS925	Paper -5	Viva - Voce and Pedagogy

## 9. ATTENDANCE , PROGRESS AND CONDUCT:

A candidate pursuing degree/diploma course should work in the concerned department of the institution for the full period as a full time student. No candidate is permitted to run a clinic/ work in a clinic / laboratory /nursing home while studying post graduate course.

No candidate shall join any other course of study or appear for any other examination conducted by this university or any other university in India or abroad during the period of registration. Each year shall be taken as a unit for the purpose of calculating attendance. Every candidate shall have not less than 80 percent of attendance in each year of the course. However, candidates should not be continuously absent as the course is a full time one.

Every candidate shall attend symposia, seminars, conferences, journal review meetings, grand rounds, CPC, case presentation, clinics and lectures during each year as prescribed by the department and not absent himself /herself from work without valid reasons.

### **CONDONATION:**

There is no condonation for MDS courses

## **10. MONITORING PROGRESS OF STUDIES:**

### **10. 1. WORK DIARY / LOG BOOK:**

- ✓ Every Post Graduate candidate shall maintain a record of skills [Log Book] he has acquired during the three years training period, certified by the various Heads of Departments he has undergone training.
- ✓ The candidate should record of his / her participation in the training programme conducted by the department such as journal reviews, seminars, etc. in the Log book.
- ✓ Special mention may be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate.
- ✓ The Head of the Department shall scrutinize the Log Book every 3 months.
- ✓ At the end of the course, the candidate should summarize the contents and the Log Book certified by the Head of the Department and Head of the Institution.
- ✓ The Log Book should be submitted at the time of University practical / Clinical examination for the scrutiny of the board of Examiners.

### **10. 2. PERIODIC TESTS:**

In case of degree courses of three years duration, the concerned departments may conduct three tests, two of them be annual tests, one at the end of first year and the other in the second year. The third test may be held three months before the final examination. The tests may include written papers, practical/ clinical and viva voce. Records and marks obtained in such tests will be maintained by the Head of the Department and sent to the University, when called for.



### **10. 3. RECORDS:**

Records and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University when called for.

### **11. DISSERTATION:**

The trainees shall prepare a dissertation based on the clinical or experimental work or any other study conducted by them under the supervision of the guide.

#### **11.1. DISSERTATION:**

The dissertation is aimed to train a postgraduate student in research methods and techniques. It includes identification of a problem, formulation of a hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis and comparison of results and drawing conclusions.

Every candidate shall submit to the Registrar of the University in the prescribed proforma, a synopsis containing particulars of proposed dissertation work within six months from the date of commencement of the course on or before the dates notified by the University. The synopsis shall be sent through the proper channel.

Such synopsis will be reviewed and the dissertation topic will be registered by the University. No change in the dissertation topic or guide shall be made without prior approval of the University.

The dissertation should be written under the following headings:

- i Introduction
- ii Aims or Objectives of study
- iii Review of Literature
- iv Material and Methods
- v Results
- vi Discussion
- vii Conclusion
- viii Summary

The written text of dissertation shall be not less than 50 pages and shall not exceed 150 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27" x 11.69") and bound properly. Spiral binding should be avoided. The dissertation shall be certified by the guide, head of the department and head of the Institution. The completed dissertation should be submitted six months before the final examination as per calendar of events.

The dissertation shall be valued by examiners appointed by the University. Approval of dissertation work is an essential precondition for a candidate to appear in the University examination.

**Guide:** The academic qualification and teaching experience required for recognition by this University as a guide for dissertation work is as laid down by Dental Council of India.

**Co-guide:** A co-guide may be included provided the work requires substantial contribution from a sister department or from another institution recognised for teaching/training by the Dental Council of India. The co-guide shall be a recognised postgraduate teacher of the University.

**Change of guide:** In the event of a registered guide leaving the college for any reason or in the event of death of guide, guide may be changed with prior permission from the university.

## **12. EXAMINATION:**

**ELIGIBILITY:** The following requirements shall be fulfilled by the candidate to become eligible for the final examination.

- (i) **Attendance:** Every candidate shall secure (80% attendance during each academic year).
- (ii) **Progress and conduct:** Every candidate shall participate in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year organised by the concerned department.
- (iii) **Work diary and log book:** Every candidate shall maintain a work diary and log book as per Annexure-I appended to these regulations for recording his or her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department of the institution. The certification of satisfactory progress is based on the work diary and log book.

**UNIVERSITY EXAMINATION.** The university examination shall consist of theory, practical and clinical examination and viva-voce and Pedagogy

### **12.1. THEORY:**

Part-I: Shall consist of one paper there shall be a theory examination in the Basic Sciences at the end of 1st year of course. The question papers shall be set and evaluated by the concerned Department/Specialty. The candidates shall have to

secure a minimum of 50% in the Basic Sciences and shall have to pass the Part-I examination at least six months prior to the final (Part-II) examination.

Part-II: Shall consist of

- (i) Three theory papers
- (ii) Practical and Clinical Examination
- (iii) Viva-voce
- (iv) Pedagogy.

A candidate who wishes to study in a second specialty, shall have to undergo the full course of three years duration in that specialty.

**12.2 DISSERTATION:** Every candidate appearing for the post-graduate degree examination shall at least six months prior to the examinations, submit with his form for examination, four typewritten copies of the dissertation undertaken by the candidate, prepared under the direction and guidance of his/her guide. The dissertation so submitted shall be referred to the examiners for their examination and acceptance of it shall be a condition precedent to allow the candidate to appear for the written part of the examination.

Provided that a candidate whose dissertation has been accepted by the examiner, but declared failed at the examination, shall be permitted to re-appear at the subsequent examination without a new dissertation: Provided further that if the dissertation is rejected by the examiner, the examiner shall assign reasons therefor with suggestions for its improvement to the candidate and such candidate shall resubmit his/ her dissertation to the examiner who shall accept it before appearing in the examination.

**CLINICAL / PRACTICAL EXAMINATION:** Clinical/practical examination is designed to test the clinical skill, performance and competence of the candidate in skills such as communication, clinical examination, medical/dental procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist. SRM Institution of Science & Technology shall ensure that the candidate has been given ample opportunity to perform various clinical procedures. The practical/clinical examination in all the specialties shall be conducted for six candidates in two days.

Provided that practical/clinical examination may be extended for one day, if it is not complete in two days.

**VIVA-VOCE EXAMINATION:** Viva voce examination aims at assessing the depth of knowledge, logical reasoning, confidence and communication skill of the students.

**SCHEME OF EXAMINATION:**

**Theory:** Part-I: Basic Sciences Paper - **100 Marks**

**Part-II:** Paper-I, Paper-II & Paper-III - **300 Marks** (100 Marks for each Paper)

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.

**12.3 DISTRIBUTION OF MARKS:**

**THEORY:**

**(TOTAL 400 MARKS)**

(1) **PART I UNIVERSITY EXAMINATION (100 Marks):**

There shall be 10 questions of 10 marks each (Total of 100 Marks)

(2) **PART II (3 papers of 100 Marks):**

- (i) **Paper-I:** 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)
- (ii) **Paper-II:** 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)
- (iii) **Paper III:** 2 out of 3 essay questions (50 x 2 = 100 Marks)

**PRACTICAL EXAMINATION: 200 MARKS**

**VIVA-VOCE AND PEDOGOGY: 100 MARKS**

**(MODEL QUESTION PATTERN)**  
**MDS DEGREE EXAMINATIONS**  
**PART I**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Time: 3 Hrs

Max.Marks:100

Answer All the Questions

(10x10=100 marks)

- 1.-----
- 2.-----
- 3.-----
- 4.-----
- 5.-----
- 6.-----
- 7.-----
- 8.-----
- 9.-----
- 10.-----

**(MODEL QUESTION PATTERN)**  
**MDS DEGREE EXAMINATIONS**  
**PART II- PAPER I**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Time: 3 Hrs

Max.Marks:100

Section A

Answer All the Questions

(2x25=50 marks)

- 1.-----
- 2.-----

Section B

Answer All the Questions

(5x10=50 marks)

- 3.-----
- 4.-----
- 5.-----
- 6.-----
- 7.-----

**(MODEL QUESTION PATTERN)**  
**MDS DEGREE EXAMINATIONS**  
**PART II- PAPER II**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Time: 3 Hrs

Max.Marks:100

Section A

Answer All the Questions

(2x25=50 marks)

- 1.-----
- 2.-----

Section B

Answer All the Questions

(5x10=50 marks)

- 3.-----
- 4.-----
- 5.-----
- 6.-----
- 7.-----

**(MODEL QUESTION PATTERN)**  
**MDS DEGREE EXAMINATIONS**  
**PART II- PAPER III**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Time : 3 Hrs

Max.Marks:100

Section A

Answer Any 2 Questions

(2x50=100 marks)

- 1.-----
- 2.-----
- 3.-----

<b>M.D.S - Oral Medicine and Radiology</b>				
<b>Subject Code</b>		<b>Subject Title</b>	<b>Passing minimum</b>	<b>Maximum marks</b>
<b>Part - I</b>				
17MDS911	Paper-1-	Applied Basic Sciences : Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics	50	100
		Theory aggregate	50	100
<b>Part – II</b>				
17MDS921	Paper – 1	Oral and Maxillofacial Radiology		100
17MDS922	Paper – 2	Oral Medicine, Therapeutics and Laboratory Investigations		100
17MDS923	Paper – 3	Descriptive and Analyzing type question		100
		Theory aggregate	150	300
17MDS924	Paper – 4	Practical and Clinical		200
17MDS925	Paper – 5	Viva - Voce and Pedagogy		100
		Practical aggregate	150	300

**\*Note:** The Topics assigned to the different papers are generally evaluated under those sections. However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

## **PRACTICAL EXAMINATIONS: PRACTICAL/CLINICAL EXAMINATION:200 MARKS CLINICAL EXAMINATION SCHEDULE**

### **DAY 1:**

- 2 Spotters 2x10 = 20marks
- 1 Longcase 1x 50 = 50marks
- 2 Short cases 2x15 = 30marks

### **Radiology exercise**

1. Intra Oral radiograph - 10marks
2. Occlusal radiograph - 30marks
3. Two extra oral radiograph (2 X 30 ) – 60mark  
(Including technique and interpretation)

### **DAY 2:**

PEDAGOGY / DISSERTATION PRESENTATION - 20marks

A topic to be given to every candidate at the beginning of clinical examination. He/she is asked to make a presentation on the topic for 8 to 10 minutes.

### **VIVA-VOCE AND PEDAGOGY: 100 Marks**

- ✓ Viva-Voce examination: 80 marks  
All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, expression, interpretation of data and communication skills. It includes all components of course contents. It includes presentation and discussion on dissertation also.
- ✓ Pedagogy Exercise: 20 marks  
A topic will be given to each candidate in the beginning of clinical examination. He/ she will be asked to make a presentation on the topic for 8-10 minutes.

## **13. EVALUATION METHOD**

### **13.1. EXAMINERS:**

#### **PART I:**

There shall be one internal and one external examiner for three students appointed by the affiliating university for evaluating the answer scripts of the same specialty. However, the number of examiner/s may be increased with the corresponding increase in number of students.



**PART II:**

There shall be four examiners in each subject. Out of them, two (50%) shall be external examiners and two (50%) shall be internal examiners. Both external examiners shall be from a university other than the affiliating university and one examiner shall be from a university of different State.

**13.2. QUALIFICATION AND EXPERIENCE FOR EXAMINERS:**

The qualification and experience for appointment of an examiner shall be as under:

- (i) Shall possess qualification and experience of a Professor in a post-graduate degree programme;
- (ii) A person who is not a regular post-graduate teacher in the subject shall not be appointed as an examiner;
- (iii) The internal examiner in a subject shall not accept external examiner ship in a college for the same academic year;
- (iv) No person shall be appointed as an external examiner for the same institution for more than two consecutive years. However, if there is a break of one year, the person can be re-appointed.

**13.3. VALUATION OF ANSWER BOOKS:****PART-I & II:**

Answer books shall be evaluated by four examiners, two internal and two external and the average marks shall be computed.

**14. PASSING MINIMUM:**

To pass the university examination, a candidate shall secure in both theory examination and in practical/clinical including viva voce independently with an aggregate of 50% of total marks allotted (50 out of 100 marks in Part I examination and 150 marks out of 300 in Part II examination in theory and 150 out of 300, clinical plus viva voce together). A candidate securing marks below 50% as mentioned above shall be declared to have failed in the examination. A candidate who is declared successful in the examination shall be granted a Degree of Master of Dental Surgery in the respective speciality.

**15. RE-VALUATION AND RE-TOTALLING:**

There is no provision for re-evaluation or re-totalling of answer books.

**16. CLASSIFICATION:**

As the Master of Dental Surgery course is more of training and practice oriented giving class is precluded.

## MEDALS AND RANKINGS:

All papers should be cleared in the first attempt and percentage of marks secured should be above 60.

## 17. SYLLABUS:

**Part-I** - Applied Basic Sciences

### Part-II

Paper-I: Oral and Maxillofacial Radiology

Paper-II: Oral Medicine, therapeutics and laboratory investigations

Paper-III: Descriptive and analyzing type question

### 17.1. DETAILED SYLLABUS:

<b>PART I</b>	Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics
<b>PART II</b>	
<b>Paper-1</b>	Oral and Maxillofacial Radiology
<b>Paper-2</b>	Oral Medicine, therapeutics and laboratory investigations
<b>Paper-3</b>	Descriptive and analyzing type question

### PART I

Subject Code	Paper	Subject Title
17MDS911	Paper 1	Applied Basic Sciences : Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics

### PART-I:

#### PAPER 1: APPLIED BASIC SCIENCES

##### 1) GENERAL HUMAN ANATOMY:

##### Anatomy of Face

- i Skin and subcutaneous tissue of oral cavity, face, scalp and neck.
  - ii Osteology of skull, zygomatic bone, maxilla, mandible, frontal,
- a. Temporal, occipital in detail including ossification.**
- i Muscles of Facial Expression, muscles of mastication.
  - ii Vascular supply of face, neck and oral cavity.
  - iii Nerve supply of face, neck and oral cavity.
  - iv Lymphatic drainage of face, neck and oral cavity.

- v Salivary glands and its relations.
- vi Cranial nerves – V, VII, IX, XI & XII and applied aspects.
- vii Facial spaces and their relations.
- viii TMJ & movements of mandible and applied aspects.
- ix Anatomy of paranasal sinuses and applied aspects.
- b. Anatomy of Neck Region**
  - i Triangles of the neck with a special reference to carotid, digastric
- c. Triangles and facial spaces.**
  - i Vascular supply, nerve supply & lymphatic drainage of neck.
  - ii Exocrine glands of head and neck.
  - iii Anatomy of oral cavity, palate and applied aspects.
  - iv Anatomy of tongue, pharynx & teeth and applied aspects.
  - v Anatomy of nose & nasal cavity and applied aspects.
- d. Embryology**
  - i Growth & development of face and applied aspects.
  - ii Growth & development of zygomatic, frontal, temporal, occipital bones, maxilla, mandible, palate and applied aspects.
  - iii Growth & development of tooth, hard tissues of teeth and applied aspects.
  - iv Growth & development of tongue and applied aspects.
  - v Growth & development of pharynx and applied aspects.
  - vi Growth & development of endocrine glands, salivary glands & other exocrine glands and applied aspects.
  - vii Growth & development of para nasal sinuses and applied aspects.
  - viii Congenital anomalies of face, jaws, teeth and other parts of above mentioned.
- e. Histology**
  - i Structure of cell.
  - ii Study of epithelium (skin and oral mucous membrane) connective tissue including cartilage, bone, muscle, nerves and nerve ganglion.
  - iii Tongue, salivary glands, tonsil, thymus and lymph nodes.
  - iv Tooth and stages of development of tooth, hard tissues, soft tissues and supporting structures of tooth.
  - v Mitosis, meiosis, chromosomes, gene structure, mendelism and modes of inheritance.

## **2. GENERAL HUMAN PHYSIOLOGY:**

- i Structure of cell and cellular transport across cell membrane.
- ii Structure of Muscle and properties of muscle fibers.
- iii Structure of nerve, neuron and properties of nerve fibers.

- iv Neuromuscular transmission and muscle contraction.
  - v Blood composition, functions, plasma proteins, coagulation of blood, cells of blood and
- a. **Blood Groups.**
    - i. Body fluid, lymph, lymph gland, spleen and reticulo - endothelial system.
  - b. **Cardiovascular System**
    - i Functional anatomy and innervation of heart, ECG, cardiac cycle, heart rate, heart sounds, cardiac output and blood pressure.
    - ii Circulatory shock, hypertension, cardiac failure.
  - c. **Respiratory System**
    - i. Physiology of respiration, functional anatomy of respiratory passage & lungs, mechanism of respiration with pressure and volume changes.
    - ii. Pulmonary ventilation, composition of air and exchange of gases.
    - iii. Oxygen and carbon dioxide transport, regulation of respiration.
    - iv. Hypoxia, cyanosis, dyspnoea and periodic breathing.
    - v. Artificial respiration and pulmonary function tests.
  - d. **Digestive System**
    - i General structure of GI tract and innervations.
    - ii Structure of salivary glands, saliva composition, regulation of secretion of saliva, functions of saliva, mastication, and deglutition.
    - iii Physiology of taste
    - iv Stomach, gastric juice, mechanism and regulation of gastric secretion.
    - v Pancreas, structure, pancreatic juice and regulation.
    - vi Structure of intestine, liver, gall bladder, composition of intestinal juice, bile and regulation.
  - e. **Endocrine System**
    - i Endocrine glands and classification.
    - ii Hormones and mechanism of action, regulation and disorders of secretion.
    - iii Pituitary gland, thyroid, adrenal gland, parathyroid gland & other hormones.
    - iv Calcium Homeostasis.
  - f. **Central nervous system**
    - i. Organization of CNS, synapse receptors, reflexes, sensations and tracts.
    - ii. Physiology of pain and pain pathways.
    - iii. Autonomic nervous system (Sympathetic and Parasympathetic).
    - iv. Neuronal organization at spinal cord level.
  - g. **Metabolism**
    - i. Carbohydrate, protein, fat and mineral metabolism.
  - h. **Vitamins**

- i. Fat soluble vitamins, water soluble vitamins and normal diet.
- i. Special senses**
  - i. Fundamental knowledge of vision, hearing, touch, taste and smell.
  - ii. Physiology of speech.
- j. Excretory system**
  - i. Structure, function of kidney and regulation of micturition.
  - ii. Role of kidney in formation and control of urine.
- k. Reproductive system**
  - i. Physiological anatomy of male and female sex organs.
  - ii. Sex differentiation, and sex hormones.

### **3. ORAL PHYSIOLOGY**

1. Saliva, mastication, deglutition.
2. Calcium, Phosphorous and Fluoride metabolism.
3. Theories of mineralization.
4. Effects of hormones on oral structures.
5. Effects of vitamins and minerals on oral structures.

### **4. BIOCHEMISTRY**

1. Carbohydrates and metabolism.
2. Blood sugar and glycogen regulation.
3. Proteins.
4. Metabolism of proteins .
5. Amino acids and inborn errors of amino acids.
6. Urea cycle.
7. Nucleic acids.
8. Structure of DNA/RNA.
9. Steps of protein synthesis and regulation of gene function.
10. Fats.
11. Metabolism of fat.
12. Synthesis and products formed from cholesterol.
13. Minerals.
14. Ca / P metabolism and regulation of calcium levels.
  - i Iron metabolism, iodine metabolism and trace elements in nutrition.
  - ii Energy metabolism.
  - iii BMR.
  - iv Enzymes and metabolic regulation.
  - v Vitamins.

## **5. PHARMACOLOGY**

### **a. General Pharmacology**

- i Introduction, routes of drug administration.
- ii Pharmacokinetics.
- iii Pharmacodynamics.
- iv Aspects of pharmacology: clinical pharmacology and drug development.
- v Adverse drug effects.

### **b. Drugs acting on Autonomic Nervous System**

- i Cholinergic system and drugs.
- ii Anticholinergic drugs and drugs acting on autonomic ganglia.
- iii Adrenergic system and drugs.

### **c. Autocoids and Related Drugs**

- i Histamine and antihistaminics.
- ii 5-Hydroxytryptine, its antagonists and drug therapy of migraine.
- iii Prostaglandins, leucotrienes and platelet activating factor.
- iv Nonsteroidal anti-inflammatory drugs and antipyretic-analgesics.

### **d. Hormones and Related Drugs**

- i Insulin, oral hypoglycemic drugs and glucagon.
- ii Corticosteroids.
- iii Drugs affecting calcium balance.

### **e. Drugs Acting on Peripheral Nervous System**

- i Skeletal muscle relaxants.
- ii Local anesthetics.

### **f. Drugs acting on Central Nervous System**

- i General anesthesia.
- ii Sedative-Hypnotics.
- iii Antiepileptic drugs.
- iv Antidepressant and anti-anxiety drugs.
- v Opioid analgesics and antagonists.

### **g. CardioVascular Drugs**

- i Drugs affecting Renin-Angiotensin system and plasma kinins.
- ii Cardiac glycosides and drugs for heart failure.
- iii Antiarrhythmic drugs.
- iv Antianginal and other anti-ischaemic drugs.
- v Antihypertensive drugs.

### **h. Drugs Acting On Kidney**

- i Diuretics.
- ii Antidiuretics.

### **i. Gastrointestinal Drugs**

- i Drugs for peptic ulcer.

**j. Antimicrobial drugs**

- i. Sulfonamides, Cotrimoxazole and Quinolones.
- ii. Beta-Lactam antibiotics.
- iii. Tetracyclines and Chloramphenicol.
- iv. Aminoglycosides.
- v. Macrolide, Lincosamide, Glycopeptide and antibiotics.
- vi. Antitubercular drugs.
- vii. Antileprotic drugs.
- viii. Antifungal drugs.
- ix. Antiviral drugs.
- x. Antiamoebic and antihelminthic drugs.
- xi. Anti cancer drugs.
- xii. Immunosuppressant gene therapy.
- xiii. Antiseptics and disinfectants
- xiv. Vitamins.
- xv. Emergencies in dental Office and emergency drugs in clinical dentistry,

**k. Drugs Acting On Blood**

- i. Coagulants.
- ii. Anticoagulants.
- iii. Haematinics.
- iv. Drug Interactions.

**l. Dental pharmacology**

- i. Antiseptics, Astringents, Obtundents.
- ii. Mummifying agents, Bleaching agents, Styptics, .
- iii. Disclosing agents, Dentifrices, Mouth washes, Fluorides.
- iv. Pharmacotherapy of common oral conditions in dentistry.

**6. GENERAL PATHOLOGY:**

1. Introduction to Pathology: etiology and pathogenesis of disease.
2. The molecular and cellular basis of disease.
3. Inflammation; acute and chronic.
4. Role of complement system in acute inflammation.
5. Chronic inflammation and granulomatous diseases.
6. Cell in health, cell injury, degeneration and cell death.
7. Healing; repair, regeneration.
8. Role of NSAIDS in inflammation.
9. Oedema, hyperemia and shock.
10. Adaptive disorders of growth.
11. Atrophy, hypertrophy, hyperplasia, metaplasia and dysplasia.
12. Thrombosis, embolism, ischaemia and infarction.

13. Necrosis and gangrene.
14. Hypersensitivity.
15. Anaphylaxis, Type II, Type III and cell mediated hypersensitivity.

#### **1. Neoplasia**

- i Classification of tumors.
- ii Benign and malignant tumors.
- iii Carcinogenesis, carcinogens and metastasis.
- iv Grading and staging of cancer.
- v Precancerous lesions and conditions.

#### **7. MICROBIOLOGY :**

1. History and Introduction.
2. Morphology and physiology of bacteria.
3. Sterilization and disinfection.
4. Culture media and culture methods.
5. Identification of bacteria.
6. Bacterial genetics and drug resistance.
7. Infection, immunity, structure and function of immune system .
8. Antigens, Antibodies and Antigen-antibody Reaction.
9. Complement system, immune response and immune.odeficiency diseases
10. Hypersensitivity.
11. Autoimmunity.
12. Immunohaematology.
13. Staphylococcus, Streptococcus, Pneumococcus, Gonococcus,
14. Meningococcus - Corynebacterium diphtheriae.
15. Clostridium.
16. Mycobacterium – Tuberculosis and Leprosy.
17. Spirochetes – Treponema pallidum, Borrelia vincenti.
18. Actinomycetes.
19. General properties of viruses, virus host interactions, virus infections
20. Viral infections affecting oral cavity.
21. Laboratory diagnosis, chemotherapy and immune prophylaxis in general.
22. Fungal infections affecting oral cavity.
23. Protozoa and helminthes.
24. Normal microbial flora of human body and oral cavity.



## **8. BIOSTATISTICS&RESEARCH METHODOLOGY:**

1. Statistical principles
  - i Data Collection
  - ii Method of presentation
  - iii Method of Summarizing
  - iv Methods of analysis - different tests/errors
2. Sampling and Sampling technique
3. Experimental models, design and interpretation
4. Development of skills for preparing clear concise and cogent scientific abstracts and publication

## **PART II**

<b>SUBJECT CODE</b>	<b>PAPER</b>	<b>SUBJECT TITLE</b>
17MDS921	PAPER 1	Oral and Maxillofacial Radiology

## **PART - II**

### **PAPER 1 - DIAGNOSIS, DIAGNOSTIC METHODS & IMAGEOLOGY AND APPLIED ORAL PATHOLOGY**

1. Diagnosis, Diagnostic Methods:
  2. Methods of clinical diagnosis of oral and systemic diseases as applicable to oral tissue including modern diagnostic techniques
  3. Differential diagnosis in oral and maxillofacial disorders
  4. Computers in oral diagnosis and imaging
  5. Chair side diagnostic methods of potentially malignant disorders
  6. Oral And Maxillofacial Radiology (IMAGEOLOGY)
    - a. History of Radiology.
- 
7. **Radiation Physics**
    - a. Nature of radiation, composition of matter.
    - b. X-ray tube, production of X-ray, properties of X-rays, X – ray machine.
    - c. Factors controlling X - ray beam, interaction x – rays with matter.
    - d. Dosimetry.
    - e. Biological effects of radiation.
    - f. Radiation safety and protection.
    - g. ICRP guidelines.
    - h. X – ray films and properties, intensifying screens and grids.
    - i. Receptors used in Digital Imaging
    - j. Projection geometry.
    - k. Processing of image in radiology.

- l. Design of X-ray department, dark room and automatic processing units.
- m. Radiographic quality assurance and infection control.
- n. Intra-oral radiographic techniques.
- o. Extra-oral imaging techniques.
- p. Specialized extra oral techniques.
- q. OPG and other radiological techniques.
- r. Normal radiographic anatomy.
- s. Faulty radiographs and concept of ideal radiograph.
- t. Localization of object by radiographic techniques.
- u. Advanced imaging technique like CT scan, MRI, ultrasound & thermography.
- v. Digital radiography and its various advantages.
- w. Radio nucleotide imaging.
- x. Contrast radiography in salivary gland, TMJ and other radiolucent pathologies.
- y. Guidelines for prescribing dental radiographs.
- z. Principles of radiographic interpretation.

## **8. Radiographic interpretation**

- a. Dental Caries, periodontal diseases, regressive changes of teeth.
- b. Differential diagnosis of periapical, pericoronal and interradiolar radiolucencies.
- c. Differential diagnosis of solitary and multilocular radiolucencies.
- d. Differential diagnosis of generalized rarefactions of the bones.
- e. Differential diagnosis of mixed radiolucent and radiopaque lesions of the jaws.
- f. Differential diagnosis of periapical and solitary radiopacities.
- g. Differential diagnosis of multiple separate and generalized radiopacities.
- h. Diseases on Paranasal sinuses and TMJ.
- i. Art of radiographic report, writing and descriptors preferred in reports.

## **9. Implant Radiology**

## **10. Imageology in Forensic Odontology**

## **11. Applied Oral Pathology**

- a. Developmental disturbances of teeth jaws & soft tissues of oral & paraoral structures.
- b. Dental caries.
- c. Diseases of pulp and sequel of pulpitis.

- d. Regressive alterations of teeth.
- e. Diseases of periodontium.
- f. Spread of oral infection.
- g. Microbial infections of oral cavity.
- h. Bacterial, viral and mycotic.
- i. Healing of oral wounds.
- j. Cysts and tumors of odontogenic origin.
- k. Benign and malignant tumors of the oral cavity.
- l. Tumors of salivary glands
- m. Physical and chemical injuries of oral cavity.
- n. Traumatic reactive lesions of oral cavity.
- o. Pigmentation of oral and paraoral region.
- p. Oral cancer and pre-cancer of oral cavity.
- q. Oral aspects of metabolic diseases.
- r. Diseases of bones and joints.
- s. Diseases of the blood and blood forming organs.
- t. Diseases of skin.
- u. Diseases of the nerves and muscles.
- v. Miscellaneous diseases effecting oal cavity.
- w. Forensic Odontology.

## **PART II**

<b>Subject Code</b>	<b>Paper</b>	<b>Subject Title</b>
17MDS922	PAPER 2	Oral Medicine, Therapeutics and Laboratory Investigations

### **PAPER 2- Oral Medicine, Therapeutics and Laboratory Investigations**

Study includes seminars/lectures/discussion

Methods of clinical diagnosis of oral and systemic diseases as applicable to oral tissues

Including modern diagnostic techniques.

1. Scope of Oral Medicine.
2. Case history taking.
3. Primary lesions and secondary lesions.
4. Laboratory investigations including special investigations of oral and oro-facial diseases.
5. Psychosomatic aspects of oral diseases.
6. Spread of infection and oral foci of infection.
7. Infectious diseases affecting oral cavity.
8. Congenital and hereditary disorders involving tissues of oro-facial region.

9. Ulcerative, vesicular and bullous lesions of oral mucosa.
10. Red and white lesions of oral mucosa.
11. Pigmented lesions of oral mucosa.
12. Benign tumors of oral cavity.
13. Oral cancer and precancer.
14. Oro-facial pain.
15. Haematological, dermatological, metabolic, nutritional & endocrinal diseases with oral manifestations.
16. Management of medical emergencies in dental chair.
17. Management of medically compromised patients..
18. Transplantation medicine.
19. Neuromuscular diseases affecting oro-facial region.
20. Salivary gland disorders.
21. Tongue in health and disease.
22. TMJ disorders.
23. Concept of immunity as related to oro-facial region, including AIDS.
24. Cysts, and tumors of odontogenic origin and fibro-osseous lesions.
25. Oral changes in diseases of bones.
26. Allergy and other miscellaneous conditions.
27. Therapeutics in oral medicine - clinical pharmacology.
28. Forensic Odontology.
29. Computers in oral diagnosis and imaging.
30. Evidence based oral care in treatment planning.
31. Molecular biology.
32. Geriatrics.

## **PART II**

<b>Subject Code</b>	<b>Paper</b>	<b>Subject Title</b>
17MDS923	Paper 3	Descriptive and Analysing type question

### **PAPER III-Descriptive and analyzing type question**

#### **18. Teaching and Learning Activities:**

##### **18.1. Lectures:**

There shall be some didactic lectures in the specialty and in the allied fields. The departments shall encourage guest lectures in the required areas and integrated lectures by multi-disciplinary teams on selected topics, to strengthen the training programmes.

**18.2. Journal Review:**

The journal review meetings shall be held at least once a week. All trainees associate and staff associated with the post-graduate programme are expected to participate actively and enter relevant details in the logbook. The trainee shall make presentations from the allotted journals of selected articles. A model check list for the evaluation of journal review presentation is annexed at Schedule-I of these regulations.

**18.3. Seminars:**

The seminars shall be held at least twice a week in each department. All trainees are expected to participate actively and enter relevant details in logbook. A model check list for the evaluation of seminar presentation is annexed at Schedule-II of these regulations.

**18.4. Symposium:**

It is recommended to hold symposium on topics covering multiple disciplines.

**18.5. Clinical Postings:**

Each trainee shall work in the clinics on regular basis to acquire adequate professional skills and competency in managing various cases, A model check list for evaluation of clinical postings is annexed at Schedule-III of these regulations.

**18.6. Clinico - Pathological Conference:**

The clinico pathological conference shall be held once a month involving the faculties of Oral Medicine and Radiology, Oral Pathology and allied clinical departments. The trainees shall be encouraged to present the clinical details, radiological and histo-pathological interpretations and participation in the discussions.

**18.7. Inter-Departmental Meetings:**

To encourage integration among various specialties, there shall be inter-departmental meeting chaired by the Dean with all heads of post-graduate departments at least once a month.

**18.8. Teaching Skills:**

All the trainees shall be encouraged to take part in undergraduate teaching programmes either in the form of lectures or group discussions. A model check list for evaluation of teaching skills is annexed at Schedule-IV of these regulations.

**18.9. Dental Education Programmes:**

Each department shall organize dental education programmes on regular basis involving other institutions. The trainees shall also be encouraged to attend such programmes conducted outside their university or institute.

**18.10. Conferences / Workshops / Advanced Courses:**

The trainees shall be encouraged to attend conference / workshops/advanced courses and also to present at least two scientific papers and two posters at State/national level specialty and allied conferences / conventions during the training period.

**18.11. Rotation and Posting in Other Departments:**

To bring in more integration among the specialties and allied fields, each department shall workout a programme to rotate the trainees in related disciplines.

**18.12. Dissertation / Thesis:**

A model check list for evaluation of dissertation presentation and continuous evaluation of dissertation work by guide / co-guide is annexed at Schedule-V of these regulations. A model overall assessment sheet to be filled by all the trainees undergoing post-graduate course is annexed at Schedule-VI of these regulations.

**18.13. Minimum Required Quota:**

All the students of the specialty departments shall complete the minimum quota for the teaching and learning activities, as follows:—

- (a) Journal Clubs : 5 in a year
- (b) Seminars : 5 in a year
- (c) Clinical Case Presentations : 4 in a year
- (d) Lectures taken for undergraduates: 1 in a year
- (e) Scientific Paper / Poster Presentations In State / : National Level Conferences : 4 papers/posters during three years of training workshop period
- (f) Clinico Pathological Conferences : 2 presentations during three years of training period
- (g) Scientific Publications (optional) : one publication in any indexed scientific journal
- (h) Submission of Synopsis : one synopsis within six months from the date of commencement of the course
- (i) Submission of Dissertation months : one dissertation within six months before appearing for the university examination
- (j) Submission of Library Dissertation :one dissertation within eighteen months from the date of commencement of the course

## **18.14. CLINICAL QUOTA:**

### **PROCEDURAL AND OPERATIVE SKILLS:**

#### **FIRST YEAR:**

1. Examination of Patient - Case history recordings - 100  
FNAC - 50  
Biopsy - 50

Observe, Assist, 8s Perform under supervision

2. Infra - oral radiographs:  
Perform an interpretation - 500

#### **SECOND YEAR:**

1. Dental treatment to medically compromised patients  
Observe, assist, and perform under supervision
2. Extra - oral radiographs, digital radiography – 20  
Observe, assist and perform under supervision

#### **Operative skills.**

1. Giving intra muscular and intravenous injections
2. Administration of oxygen and life saving drugs to the patients
3. Performing basic CPR and certification by Red Cross

#### **THIRD YEAR:**

All the above

Performed independently - Case history: Routine cases	-	100
Interesting Cases	-	25
Intra - oral Radiographs	-	100
Extra - oral radiographs of different views	-	100
Periapical view	-	100
Bitewing view	-	50
Occlusal view	-	50

## **19. Recommended List of Textbooks & Journals:**

### **Text Books:**

1. Fundamentals of Dental Radiography, 3<sup>rd</sup> Ed. Mansonting, L R
2. Oral Radiology: Principles And Interpretation:Goaz, P W 3rd Ed
3. Oral Radiology: Principles And Interpretation; White 2nd Ed.
4. Basic Principles Of Clinical Research And Gupta, S.K. Methodology
5. Basic Principles of Radiographic Exposure De Vos, Dianne.C
6. Basics Of Dentistry Vipin, Dabas
7. Behavioural Sciences For Dentistry Humphris, Gerry

8. Bells Orofacial Pains: The Clinical Management Okeson, Jefferey P Of Orofacial Pain: Ed 6
9. Burkets Oral Medicine: Diagnosis And Treatment Greenberg, Martin.S 10th Ed
10. Cancer Medicine Vol. 2 Holland, James. F
11. Cancer Of The Head & Neck ; Atlas Of Clinical Shsh, Jatin .P Ed Oncology
12. Cawsons Essential Of Oral Pathology And Oral Cawson, R.A Medicine 7th Ed
13. Clinical Medicine Kumar, P
14. Clinical Oral Science Harris, Malcolm
15. Differential Diagnosis Of Oral And Maxillofacial Wood, Narman.K Lesions, Ed.5
16. Digital Imaging In Diagnostisic Radiology Newell, Joh
17. Diseases Of The Oral Mucosa: A Color Atlas 2<sup>nd</sup> Strarsburg, Manford Ed
18. Harrisons Principles Of Internal Medicine Dennis L Kasper Volume 1 Ed19.
19. Harrisons Principles Of Internal Medicine Dennis L Kaspar
20. Imaging of the Temporomandibular Joint Vol.I Westesson, Per-Lennart S.
21. Immunology Ed.5 Goldsby, Richard. A (Et.Al)
22. Oral And Maxillofacial Infections 4 Th Ed Topazian, R.G

#### **JOURNALS RECOMMENDED:**

<b>S.No</b>	<b>Journal Title</b>	<b>Publisher</b>	<b>National/ International</b>
1	Dento maxillofacial Radiology	British Institute Of Radiology	International
2	Journal Of Indian Academy Of Oral Medicine & Radiology	Indian Academy Of Oral Medicine & Radiology	National
3	Journal Of Oral And Maxillofacial Surgery, Medicine, And Pathology	Elsevier	International



**20. CHECKLISTS**  
**Checklists and Logbooks**

**CHECKLIST-1**  
**MODEL CHECK LIST FOR EVALUATION OF JOURNAL REVIEW**  
**PRESENTATIONS.**

Name of the Trainee:

Date:

Name of the Faculty / Observer:

<b>Sl. No</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	Article chosen was					
2.	Extent of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross-references have been consulted					
4.	Whether other relevant publications consulted					
5.	Ability to respond to questions on the paper/ subject					
6.	Audio - Visual aids used					
7.	Ability to discuss the paper					
8.	Clarity of presentation					
9.	Any other observation					
	<b>Total Score</b>					

**CHECKLIST-2**  
**MODEL CHECK LIST FOR EVALUATION OF SEMINAR PRESENTATIONS.**

Name of the Trainee:

Date:

Name of the Faculty / Observer:

Sl No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Whether other relevant publications consulted					
2	Whether cross - references have been consulted					
3	Completeness of Preparation					
4	Clarity of Presentation					
5	Understanding of subject					
6	Ability to answer the questions					
7	Time scheduling					
8	Appropriate use of Audio - Visual aids					
9	Overall performance					
10	Any other observation					
<b>Total score</b>						

**CHECKLIST-3**  
**MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN OPD**

Name of the Trainee:

Date:

Name of the Unit Head:

Sl. No.	Items for observation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Regularity of attendance					
2.	Punctuality					
3.	Interaction with colleagues and supportive staff					
4.	Maintenance of case records					
5.	Presentation of cases					
6.	Investigations work - up					
7.	Chair - side manners					
8.	Rapport with patients					
9.	Overall quality of clinical work					
	<b>Total score</b>					

Please use a separate sheet for each faculty member

**CHECKLIST - 4**  
**EVALUATION FORM FOR CLINICAL CASE PRESENTATION**

Name of the Trainee:

Date:

Name of the faculty / Observer:

<b>Sl. No</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	Completeness of history					
2.	Whether all relevant points elicited					
3.	Clarity of presentation					
4.	Logical order					
5.	Mentioned all positive and negative					
6.	Accuracy of general physical examination					
7.	Investigations required Complete list					
8.	Relevant order Intepretation of Investigations					
	Ability to discuss differential diagnosis.					
9.	Ability to discuss diagnosis.					
10.	Others					
	<b>Grand Total</b>					

Please use a separate sheet for each faculty member

**CHECKLIST-5**  
**MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL**

Name of the Trainee:

Date:

Name of the faculty Observer:

Sl. No.		Strong Point	Weak Point
1.	Communication of the purpose of the talk		
2.	Evokes audience interest in the subject		
3.	The introduction		
4.	The sequence of ideas		
5.	The use of practical examples and / or illustrations		
6.	Speaking style (enjoyable, monotonous, etc. Specify)		
7.	Attempts audience participation		
8.	Summary of the main points at the end		
9.	Ask questions		
10.	Answer questions asked by the audience		
11.	Rapport of speaker with his audience		
12.	Effectiveness of the talk		
13.	Uses AV aids appropriately		

Please use a separate sheet for each faculty member

**CHECKLIST-6**  
**MODEL CHECKLIST FOR DISSERTATION PRESENTATION**

Name of the Trainee:

Date:

Name of the faculty / Observer:

Sl. No.	Prints to be considered	Poor	Below	Average	Good	Very
1.	Interest show in selecting topic					
2.	Appropriate review					
3.	Discussion with guide and other faculty					
4.	Quality of protocol					
5.	Preparation of Proforma					
<b>Total Score</b>						

**CHECKLIST-7**  
**CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE/CO-GUIDE**

Name of the Trainee:

Date

Name of the Faculty/Observer:

<b>Sl. No.</b>	<b>Items for observation during presentation</b>	<b>Poor 0</b>	<b>Below Average 1</b>	<b>Average 2</b>	<b>Good 3</b>	<b>Very Good 4</b>
1.	Periodic consultation with guide / co- guide					
2.	Regular collection of case material					
3.	Depth of Analysis / Discussion					
4.	Department presentation of findings					
5.	Quality of final output					
6.	Others					
<b>Total score</b>						

**CHECKLIST - 8**  
**OVERALL ASSESSMENT SHEET**

Name of the College:

Date:

Check List No	PARTICULARS	A	B	C	D	E	F	G	H	I
1.	Journal Review Presentation									
2.	Seminars									
3.	Clinical work in wards									
4-	Clinical presentation									
5.	Teaching skill practice									
6.										
<b>TOTAL</b>										

**Signature of HOD**

**Signature of Dean**

The above overall assessment sheet used along with the logbook should form the basis for certifying satisfactory completion of course of study, in addition to the attendance requirement.

**Key:**

**Mean score:** Is the sum of all the scores of checklists 1 to 7 **A,**

**B,**.....: Name of trainees

**LOG BOOK - TABLE 1**  
**ACADEMIC ACTIVITIES ATTENDED**

Name :  
Admission Year :  
College :

Date	Type of activity - Specify Seminar, Journal club, Presentation, UG teaching	Particulars

**LOG BOOK - TABLE 2**  
**ACADEMIC PRESENTATIONS MADE BY THE TRAINEE**

Name :  
Admission Year :  
College :

Date	Topic	Type of activity - Specify Seminar, Journal club, Presentation, UG teaching



**LOG BOOK - TABLE 3  
DIAGNOSTIC AND OPERATIVE PROCEDURES PERFORMED**

Name :  
Admission Year :  
College :

<b>Date</b>	<b>Name</b>	<b>OP No.</b>	<b>Procedure</b>	<b>Category O, A, PA, PI</b>

**Key:**

- O - WASHED UP AND OBSERVED - INITIAL 6 MONTHS OF ADMISSION**
- A - ASSISTED A MORE SENIOR SURGEON -1 YEAR MDS**
- PA - PERFORMED PROCEDURE UNDER THE DIRECT SUPERVISION OF A SENIOR SURGEON - II YEAR MDS**
- PI - PERFORMED INDEPENDENTLY - III YEAR MDS**