

## **DEPARTMENT OF PERIODONTOLOGY**

### **MDS CURRICULUM**

All the students of the speciality 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) Clinical 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:** 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

### **TEACHING / LEARNING ACTIVITIES:**

The following is the minimum required to be completed before the candidate can be considered eligible to appear for the final MDS exam.

## **First Year**

### **Preclinical Work**

#### **Periodontology**

##### **Module 1 (First Year) Orientation to the PG program**

##### **Pre-clinical work (4 months)**

###### **a. Dental**

1. Practice of incisions and suturing techniques on the typodont models.
  2. Fabrication of bite guards and splints.
  3. Occlusal adjustment on the casts mounted on the articulator
  4. X-ray techniques and interpretation.
  5. Local anaesthetic techniques.
  6. Identification of Common Periodontal Instruments.
  7. To learn science of Periodontal Instruments maintenance (Sharpening, Sterilization and Storage)
  8. Concept of Biological width
- a. Typodont Exercise (i) Class II Filling with Band and Wedge Application (ii) Crown cuttings

###### **b. Medical**

1. Basic diagnostic microbiology and immunology, collection and handling of sample and culture techniques.
2. Introduction to genetics, bioinformatics.
3. Basic understanding of cell biology and immunological diseases.

##### **Clinical work**

1. Applied periodontal indices 10 cases
  2. Scaling and root planning:- with Proper written history
- a. Manual 20 Cases b. Ultrasonic 20 Cases
3. Observation / assessment of all periodontal procedures including implants.

##### **Module 2 (First Year)**

1. Interpretation of various bio-chemical investigations.
2. Practical training and handling medical emergencies and basic life support devices.
3. Basic biostatistics – Surveying and data analysis.

##### **Clinical**

1. Case history and treatment planning 10 cases
2. Root planning 50 cases
3. Observation / assessment of all periodontal procedures including implant.

4. Selection of topic for Library dissertation and submission of Dissertation Synopsis.
3. Module 3 (First Year) Minor surgical cases 20 cases (i) Gingival Depigmentation 3 Cases (ii) Gingival Curettage no limits (iii) ENAP 1 Case (iv) Gingivectomy/ Gingivoplasty 5 cases (v) Operculectomy 3 cases Poster Presentation at the Speciality conference.

**Presentation of:**

- Seminars - 5 seminars by each student
- Journal clubs - by each student
- Submission of synopsis at the end of 6 months
- Library assignment work
- Internal assessment - theory and clinicals.

**Second Year**

**Clinical work**

1. Case history and treatment planning 10 cases
2. Occlusal adjustments 10 cases
3. Perio splints 10 cases
4. Local drug delivery techniques 5 cases
5. Screening cases for dissertation.

**Module 5 (Second Year)**

1. Periodontal surgical procedures.
  - a. Basic flap procedures 20 cases
  2. Periodontal plastic and esthetic 10 cases
    - a. Increasing width of attached gingival 5 cases
    - b. Root coverage procedures / Papilla Preservation and Reconstruction 5 cases
    - c. Crown lengthening procedures 5 cases
    - d. Frenectomy 5 cases
    - e. Vestibuloplasty 5 cases
3. Furcation treatment (Hemisection, Root-section, Tunneling) 5 cases
4. Surgical closure of diastema. 2 cases

- Under graduate teaching program as allotted by the HOD
- Seminars - 5 by each student
- Journal club - 5 by each student
- Dissertation work
- Prepare scientific paper and present in conference and clinical meeting

- Library assignment to be submitted 18 months after starting of the course
- Internal assessment - theory and clinical

### **Third Year**

Dissertation work to be submitted 6 months before final examination.

#### **Module 6 (Third Year)**

1. Ridge augmentation procedures 5 cases
2. Implants Placements and monitoring 5 cases
3. Sinus lift procedures 2 cases
4. Case selection, preparation and investigation of implants.
5. Interdisciplinary Periodontics 2 each (i) Ortho – Perio (ii) Endo – Perio (iii) Restorative Perio (iv) Preprosthetic (v) Crown Prep
6. Osseous Surgery 2 each (i) Resective (ii) Regenerative
7. Scientific paper/ poster presentation at the conference.

#### **Module 7 (Third Year)**

##### **Clinical work**

1. Flap surgeries & regenerative techniques 25 cases (using various grafts & barrier membranes)
2. Assistance / observation of advanced surgical procedure 5 each
3. Micro Surgery 5 each
4. Record maintenance & follow-up of all treated cases including implants.

Presentation of:

- Seminars
- Journal club
- Teaching - lecture (under graduates)
- Internal assessment - theory and clinical

## **MONITORING LEARNING PROGRESS:**

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.

## **SCHEME OF EXAMINATION:**

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, Physiology & Biochemistry, Pathology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology.

### **Part-II**

Paper I: Normal Periodontal structure, Etiology & Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics.

Paper II: Periodontal diagnosis, therapy & Oral Implantology

Paper III: Essays (descriptive and analyzing type questions)

## **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)

Written examination shall consist of four question papers each of three hours duration. Total marks for- each paper will be 100. Paper I, II and III shall consist of two long questions carrying 20 marks each and 6 short essay questions -each carrying 10 marks. Paper IV will be on Essay. Questions on recent advances may be asked in any or all the papers. Distribution of topics for each paper will be as follows:

**PAPER-I:** Applied Basic Sciences: Applied Anatomy, Physiology & Biochemistry, Pathothology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology.

**PAPER-II:** Normal Periodontal structure, Etiology & Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics.

**PAPER-III:** Periodontal diagnosis, therapy and Oral implantology.

**PAPER-IV:** Essay

## **B. Clinicals: 200 Marks**

The practical/clinical examination in all the specialities shall be of two days duration.

### **Day 1**

Case discussion

- Long case - One
- Short case - One

Periodontal surgery – Periodontal Surgery on a previously prepared case after getting approval from the examiners.

## **Day 2**

Post-surgical review and discussion of the case treated on the 1st day.

Presentation of dissertation & discussion.

All the examiners shall participate in all the aspects of clinical examinations / Viva Voce

### **Distribution of Marks for Clinical examination (recommended)**

a) Long Case discussion **75**

b) 1 short case **25**

c) Periodontal surgery

1. Anesthesia **10**

2. Incision **20**

3. Post Surgery Evaluation **25**

4. Sutures **10**

5. Pack (if any) **10**

Post – operative review **25**

**Total 200**

### **C. Viva Voice: 100 Marks**

#### **i. Viva-Voice examination: 80 marks**

All examiners will conduct viva-voice 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.

#### **ii. Pedagogy Exercise: 20 marks**

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

