



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 AND MAXILLOFACIAL SURGERY

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

REGULATIONS -2017

MASTER OF DENAL SURGERY (M.D.S.)

ORAL AND MAXILLOFACIAL SURGERY

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 36th 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 & MAXILLOFACIAL SURGERY

Oral and Maxillofacial surgery and Implantology deals with the diagnosis and surgical and adjunctive treatment of diseases, injuries and defects of the human jaws and associated oral and facial structures.

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 specialty.

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:

General	50th Percentile
Person with locomotor disability of lower limbs	45 th percentile
Scheduled castes, Scheduled tribes, other backward classes	40 th 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:

BDS pass / degree certificate issued by the University.

- a. Marks cards of all the university examinations passed (I to IV BDS year course).
- b. Attempt Certificate issued by the Principal.
- c. Certificate regarding the recognition of the Dental College by the Dental Council of India.
- d. Completion of paid rotatory internship certificate from a recognized college.
- e. Registration by any State Dental Council and
- f. 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 1st week of May and the cut –off date for admission will be 31st 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 1st year of MDS course. Part 2 examination shall be conducted during the 1st 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:

M.D.S - Oral and Maxillofacial Surgery		
Subject Code		Subject Title
Part - I		
17MDS411	Paper-1	Applied Basic Sciences: Applied Anatomy, Physiology and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.
Part - II		
17MDS421	Paper - 1	Minor Oral Surgery and Trauma
17MDS422	Paper - 2	Maxillo - Facial Surgery
17MDS423	Paper - 3	Descriptive and Analyzing type question
17MDS424	Paper - 4	Practical and Clinical
17MDS425	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 summarise 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 organized 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 consists 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 Institute of Science and 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, and 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.-----

M.D.S - Oral and Maxillofacial Surgery				
Subject code		Subject title	Passing minimum	Maximum marks
Part - I				
17MDS411	Part I	Applied Basic Sciences: Applied Anatomy, Physiology and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.	50	100
		Theory aggregate	50	100
Part – II				
17MDS421	Paper 1	Minor Oral Surgery and Trauma		100
17MDS422	Paper 2	Maxillo - Facial Sugery		100
17MDS423	Paper 3	Descriptive and Analysing type question		100
		Theory aggregate	150	300
17MDS424	Paper 4	Practical and Clinical		200
17MDS425	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

A. CLINICAL EXAMINATION:

200 MARKS

The duration of Clinical and Viva Voce examination will be 2 days for a batch of four students. If the number of candidates exceeds 4, the programme can be extended to **3rd** day.

1. MINOR ORAL SURGERY:

100 MARKS

Each candidate is required to perform the minor oral surgical procedures under local anaesthesia. The minor surgical cases may include removal of impacted lower third molar, cyst enucleation, any similar procedure where students can exhibit their professional skills in raising the flap, removing the bone and suturing the wound.

- ✓ Case history and planning: 25 marks
- ✓ Stage viva: 25 marks
- ✓ Local anaesthesia and procedure: 25 marks
- ✓ Stage viva: 25 marks

2. a) ONE LONG CASE- 60 MARKS

b) TWO SHORT CASES- 20 MARKS EACH

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 speciality. 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 examinership 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 specialty.

15. RE-VALUATION AND RE-TALLING:

There is no re-valuation or re-totalling for MDS courses

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: Minor Oral Surgery and Trauma

Paper-II: Maxillo-facial Surgery

Paper-III: Descriptive and analyzing type question

DETAILED SYLLABUS:

PART I	Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.
PART II	
Paper-1	Minor Oral Surgery and Trauma
Paper-2	Maxillo-facial Surgery
Paper-3	Descriptive and analyzing type question

PART I

SUBJECT CODE	PAPER	SUBJECT TITLE
17MDS411	PAPER 1	Applied Basic Sciences: Applied Anatomy, Physiology and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

APPLIED ANATOMY:

1. Surgical anatomy of the scalp, temple and face
2. Anatomy of the triangles of neck and deep structures of the neck
3. Cranial and facial bones and its surrounding soft tissues- With its applied aspects in maxillofacial injuries.
4. Muscles of head and neck
5. Arterial supply, venous drainage and lymphatics of head and neck
6. Congenital abnormalities of the head and neck
7. Surgical anatomy of the cranial nerves
8. Anatomy of the tongue and its applied aspects

9. Surgical anatomy of the temporal and infratemporal regions.
10. Anatomy and its applied aspects of salivary glands, pharynx, thyroid and parathyroid gland, larynx, trachea esophagus.
11. Tooth eruption, morphology, and occlusion.
12. Surgical anatomy of the nose.
13. The structure and function of the brain including surgical anatomy of intra cranial venous sinuses.
14. Autonomous nervous system of head and neck
15. Functional anatomy of mastication, deglutition, speech, respiration and circulation.
16. Development of face, paranasal sinuses and associated structures and their anomalies.
17. TMJ: surgical anatomy and function

PHYSIOLOGY:

1. NERVOUS SYSTEM:

1. Physiology of nerve conduction, pain pathway, sympathetic and parasympathetic nervous system, hypothalamus and mechanism of controlling body temperature

2. BLOOD:

1. Composition
2. Haemostasis, various blood dyscrasias and management of patients with the same
3. Hemorrhage and its control
4. Capillary and lymphatic circulation.
5. Blood grouping, transfusing procedures. Digestive system
6. Saliva - composition and functions of saliva
7. Mastication deglutition, digestion, assimilation
8. Urine formation, normal and abnormal constituents

3. RESPIRATION:

1. Control of ventilation, anoxia, asphyxia, artificial respiration
2. Hypoxia - types and management

4. CARDIOVASCULAR SYSTEM:

1. Cardiac cycle,
2. Shock
3. Heart sounds,

4. Blood pressure,
5. Hypertension:

5. ENDOCRINOLOGY:

1. General endocrinal activity and disorder relating to thyroid gland,
2. Parathyroid gland, adrenal gland, pituitary gland, pancreas and gonads:
3. Metabolism of calcium

6. NUTRITION:

1. General principles of a balanced diet, effect of dietary deficiency, protein energy malnutrition, Kwashiorkor, Marasmus.
2. Fluid and Electrolytic balance in maintaining haemostasis and significance in minor and major surgical procedures.

BIOCHEMISTRY:

1. General principles governing the various biological activities of the body, such as osmotic pressure, electrolytes, dissociation, oxidation, reduction etc.
2. General composition of the body
3. Intermediary metabolism
4. Carbohydrates, proteins, lipids, and their metabolism
5. Nucleoproteins, nucleic acid and nucleotides and their metabolism
6. Enzymes, vitamins and minerals
7. Hormones
8. Body and other fluids.
9. Metabolism of inorganic elements.
10. Detoxification in the body.
11. Antimetabolites.

PATHOLOGY:

1. INFLAMMATION: -

1. Repair and regeneration, necrosis and gangrene
2. Role of component system in acute inflammation,
3. Role of arachidonic acid and its metabolites in acute inflammation,
4. Growth factors in acute inflammation
5. Role of molecular events in cell growth and intercellular signaling cell surface receptors
6. Role of NSAIDs in inflammation,
7. Cellular changes in radiation injury and its manifestation:

2. HAEMOSTASIS:

1. Role of endothelium in thrombogenesis,
2. Arterial and venous thrombi,
3. Disseminated Intravascular coagulation

3. SHOCK:

1. Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock
2. Circulatory disturbances, ischemia, hyperemia, venous congestion, edema, infarction

4. CHROMOSOMAL ABNORMALITIES:

Marfans Syndrome, Ehler'sDanlos Syndrome, Fragile X- Syndrome

5. HYPERSENSITIVITY:

1. Anaphylaxis, type 2 hypersensitivity, type 3 hyper sensitivity and cell mediated reaction and its clinical importance, systemic lupus erythematosus.
2. Infection and infective granulomas.

6. NEOPLASIA:

1. Classification of tumors.
2. Carcinogenesis and carcinogen- chemical, viral and microbial
3. Grading and staging of cancers, tumor Angiogenesis, Paraneoplastic syndrome, spread of tumors
4. Characteristics of benign and malignant tumors

7. OTHERS:

1. Sex linked agammaglobulinemia.
2. AIDS
3. Management of immuo-deficiency patients requiring surgical procedures
4. Di George Syndrome
5. Ghons complex, post primary pulmonary tuberculosis - pathology and pathogenesis.

8. ORAL PATHOLOGY:

1. Developmental disturbances of oral and Para oral structures
2. Regressive changes of teeth.
3. Bacterial, viral and mycotic infections of oral cavity
4. Dental caries, diseases of pulp and periapical tissues
5. Physical and chemical injuries of the oral cavity

6. Oral manifestations of metabolic and endocrinal disturbances
7. Diseases of jawbones and TMJ
8. Diseases of blood and blood forming organs in relation to oral cavity
9. Cysts of the oral cavity
10. Salivary gland diseases
11. Role of laboratory investigations in oral surgery

9. MICROBIOLOGY:

1. Immunity
2. Knowledge of organisms commonly associated with disease of oral cavity
3. Morphology , cultural characteristics of strepto, stahlo, pneumo, gono , meningo, clostridium group of microorganism, spirochetes, organisms of TB, leprosy, diphtheria, actinomyces and moniliasis
4. Hepatitis B and its prophylaxis
5. Culture and sensitivity test
6. Laboratory determinations
7. Blood groups , blood matching, RBC and WBC count
8. Bleeding and clotting time etc , smears and cultures
9. Urine analysis and cultures

APPLIED PHARMACOLOGY & THERAPEUTICS

1. Definition of terminologies used
2. Dosage and mode of administration of drugs
3. Action and fate of drugs in the body
4. Drug addiction , tolerance and hypersensitivity reactions
5. Drugs acting on the CNS
6. General and local anesthetics , hypnotics, analeptics and tranquilizers
7. Chemo therapeutics and antibiotics
8. Analgesics and antipyretics
9. Antitubercular and antisyphilitic drugs
10. Antiseptics, sialogogues and antisialogogues
11. Haematinics
12. Antidiabetics

BIOSTATISTICS:

1. Statistical principles
 - a. Data Collection
 - b. Method of presentation
 - c. Method of Summarizing
 - d. 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

APPLIED RESEARCH METHODOLOGY IN ORAL SURGERY

1. Experimental design
2. Animal experimental protocol
3. Principles in the development, execution and interpretation of methodologies in Oral surgery
4. Critical Scientific appraisal of literature.

PART II

SUBJECT CODE	PAPER	SUBJECT TITLE
17MDS421	PAPER 1	Minor Oral Surgery and Trauma

MINOR ORAL SURGERY:

- ✓ **PRINCIPLES OF SURGERY:** Developing a surgical diagnosis, basic necessities. For surgery, aseptic technique, incisions, flap design tissue handling, haemostasis, dead space management, decontamination and debridement, suturing, oedema control, patient general health and nutrition.
- ✓ **MEDICAL EMERGENCIES:** prevention and management of altered consciousness (syncope, orthostatic hypotension, seizures, diabetes mellitus, adrenal insufficiency), hypersensitivity reactions, chest discomfort, and respiratory difficulty.

1. EXAMINATION AND DIAGNOSIS:

Clinical history, physical and radiographic, clinical and laboratory diagnosis, oral manifestations of systemic diseases, implications of systemic diseases in surgical patients.

2. HAEMORRHAGE AND SHOCK:

Applied physiology, clinical abnormalities of coagulation, extra vascular hemorrhage, and hemorrhagic lesions, management of secondary hemorrhage, shock.

3. EXODONTIA:

principles of extraction, indications and contraindications, *types* of extraction, complications and their management, principles of elevators and elevators used in oral surgery.

4. IMPACTION:

Surgical anatomy, classification, indications and contraindications, diagnosis, procedures, complications and their management.

5. SURGICAL AIDS TO ERUPTION OF TEETH:

Surgical exposure of unerupted teeth, surgical repositioning of partially erupted teeth.

6. TRANSPLANTATION OF TEETH

7. SURGICAL ENDODONTICS:

Indications and contraindications, diagnosis, procedures of periradicular surgery

8. PREPROSTHETIC SURGERY:

Requirements, types (alveoloplasty, tuberosity reduction, mylohyoid ridge reduction, genial reduction, removal of exostosis, vestibuloplasty)

9. PROCEDURES TO IMPROVE ALVEOLAR SOFT TISSUES:

Hypermobility tissues- operative / sclerosing method, epulis fissuratum, frenectomy and frenotomy

10. INFECTION OF HEAD AND NECK:

Odontogenic and non Odontogenic infections, factors affecting spread of infection, diagnosis and differential diagnosis, management of facial space infections, Ludwig's angina, and cavernous sinus thrombosis.

11. CHRONIC INFECTIONS OF THE JAWS:

Osteomyelitis (types, etiology, pathogenesis, management) osteoradionecrosis

12. MAXILLARY SINUS:

Maxillary sinusitis - types, pathology, treatment, closure of Oro - antral fistula, Caldwell- luc operation

13. CYSTS OF THE OROFACIAL REGION:

Classification, Diagnosis, management of OKC, dentigerous, radicular, non Odontogenic, ranula.

14. NEUROLOGICAL DISORDERS OF THE MAXILLOFACIAL REGION:

Diagnosis and management of trigeminal neuralgia, MPDS, bell's palsy, Frey's syndrome, nerve injuries.

15. IMPLANTOLOGY:

Definition, classification, indications and contraindications, advantages and disadvantages, surgical procedure

16. ANESTHESIA:

LOCAL ANESTHESIA:

Classification of local anesthetic drugs, mode of action, indications and contra indications, advantages and disadvantages, techniques, complications and their management.

GENERAL ANESTHESIA:

Classification, stages of GA, mechanism of action, indications, and contra indications, advantages and, disadvantages, post anesthetic complications and emergencies, anesthetic for dental procedures in children, pre medication, conscious sedation, legal aspects for GA

17. TRAUMA

18. SURGICAL ANATOMY OF HEAD AND NECK

19. ETIOLOGY OF INJURY

20. BASIC PRINCIPLES OF TREATMENT

21. PRIMARY CARE:

Resuscitation, establishment of airway, management of hemorrhage, management of head injuries and admission to hospital.

22. DIAGNOSIS:

Clinical, radiological

23. SOFT TISSUE INJURY OF FACE AND SCALP:

Classification and management of soft tissue wounds, injuries to structure requiring special treatment.

24. DENTO ALVEOLAR FRACTURES:

Examination and diagnosis, classification, treatment, prevention.

25. MANDIBULAR FRACTURES:

Classification, examination and diagnosis, general principles of treatment, complications and their management

26. FRACTURE OF ZYGOMATIC COMPLEX:

Classification, examination and diagnosis, general principles of treatment, complications and their management.

27. ORBITAL FRACTURES:

Blow out fractures

28. NASAL FRACTURES

29. FRACTURES OF MIDDLE THIRD OF THE FACIAL SKELETON:

Emergency care, fracture of maxilla, and treatment of Le Fort I, II, III, fractures of Nasoorbitoethmoidal region.

30. OPHTHALMIC INJURIES:

Minor injuries, non-perforating injuries, perforating injuries, retro bulbar hemorrhage, and traumatic optic neuropathy.

31. TRAUMATIC INJURIES TO FRONTAL SINUS:

Diagnosis, classification, treatment

32. MAXILLOFACIAL INJURIES IN GERIATRIC AND PEDIATRIC PATIENTS.

33. GUN SHOT WOUNDS AND WAR INJURIES

34. OSSEOINTEGRATION IN MAXILLOFACIAL RECONSTRUCTION

- ✓ Bone physiology and bone healing
- ✓ Osseo-integration
- ✓ Materials used in reconstruction
- ✓ Various grafting procedures of soft and hard tissues

- ✓ Reconstruction in residual deformity
- ✓ Distraction osteogenesis

35. METABOLIC RESPONSE TO TRAUMA:

Neuro endocrine responses, inflammatory mediators, clinical implications

36. HEALING OF TRAUMATIC INJURIES:

Soft tissues, bone, cartilage, response of peripheral nerve to injury

37. NUTRITIONAL CONSIDERATION FOLLOWING TRAUMA

38. TRACHEOSTOMY:

Indications and contraindications, procedure, complications and their management.

PART II

SUBJECT CODE	PAPER	SUBJECT TITLE
17MDS422	PAPER 2	Maxillo - Facial Sugery

PAPER-II: MAXILLOFACIAL SURGERY

SALIVARY GLAND:

1. Sialography
2. Salivary fistula and management
3. Diseases of salivary gland - developmental disturbances, cysts, inflammation and sialolithiasis
4. Mucocele and Ranula
5. Tumors of salivary gland and their management
6. Staging of salivary gland tumors
7. Parotidectomy

TEMPOROMANDIBULAR JOINT:

1. Etiology, history signs, symptoms, examination and diagnosis of temporomandibular joint disorders
2. Ankylosis and management of the same with different treatment modalities
3. MPDS and management
4. Condylectomy - different procedures
5. Various approaches to TMJ
6. Recurrent dislocations - Etiology and Management

ONCOLOGY:

1. Biopsy
2. Management of pre-malignant tumors of head and neck region
3. benign and Malignant tumors of Head and Neck region
4. Staging of oral cancer and tumor markers
5. Management of oral cancer
6. Radical Neck dissection
7. Modes of spread of tumours
8. Diagnosis and management of tumors of nasal, paranasal, neck, tongue, cheek, maxilla and mandible
9. Radiation therapy in maxillofacial regions
10. Lateral neck swellings

ORTHOGNATHIC SURGERY

1. Diagnosis and treatment planning
2. Cephalometric analysis
3. Model surgery
4. Maxillary and mandibular repositioning procedures
5. Segmental osteotomies
6. Management of apertognathia
7. Genioplasty
8. Distraction osteogenesis

CYSTS AND TUMOR OF ORO FACIAL REGION

1. Odontogenic and non-Odontogenic tumors and their management
2. Giant Cell lesions of jawbone
3. Fibro osseous lesions of jawbone
4. Cysts of jaw

LASER SURGERY

1. The application of laser technology in surgical treatment of lesions

CRYOSURGERY

1. Principles, applications of cryosurgery in surgical management

CLEFT LIP AND PALATE SURGERY

1. Detailed knowledge of the development of the face, head and neck
2. Diagnosis and treatment planning
3. Current concepts in the management of cleft lip and palate deformity

4. Knowledge of Naso endoscopy and other diagnostic techniques in the evaluation of speech and hearing
5. Concept of multidisciplinary team management

AESTHETIC FACIAL SURGERY

1. Detailed knowledge of the structures of the face and neck including skin and underlying soft tissue
2. Diagnosis and treatment planning of deformities and conditions affecting facial skin
3. Underlying facial muscles, bone, Eyelids, external ear
4. Surgical management of post acne scarring, facelift, blepharoplasty, otoplasty, facial bone recontouring, etc

CRANIOFACIAL SURGERY

1. Basic knowledge of developmental anomalies of the face, head and neck
2. Basic concepts in the diagnosis and planning of various head and neck anomalies including facial clefts, craniosynostosis, syndromes, etc.
3. Current concept in the management of Craniofacial anomalies

PART II

SUBJECT CODE	PAPER	SUBJECT TITLE
17MDS423	PAPER 3	Descriptive and Analysing type question

PAPER-III:

Descriptive and analyzing 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-DEPARTMENT AL 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:

I YEAR

FIRST TERM:

Dissection, basic sciences, basic computer sciences, exodontia, seminars on basic topics, selection of dissertation topic, library assignment topic, attending O.T and ward rounds, preparation of synopsis and its submission within the six months after admission to the university as per calendar of events.

SECOND TERM (rotation and postings in other department):

Oncology	- 2 months
Emergency	- 1 month
General medicine	- 15 days
General surgery/anesthesia	- 15 days
Ophthalmology	- 15 days
Neurology	- 15 days
ENT	- 15 days
Orthopedic	- 15 days

Examination of basic sciences - one paper of three hours duration to be conducted by the college

II YEAR:

Minor oral surgery and higher surgical training. Submission of library assignment by the end of first term

Examination on minor oral surgical procedures - one paper of three hours duration to be conducted by the college.

III YEAR:

Maxillofacial surgery, submission of dissertation in the first term, i.e. six months before the final examination to the university.

Examination of three hours duration three months before the final examination to be conducted by the college. It is desirable to enter general surgical skills and operative procedure that are observed, assisted or performed in the log book in the format as given by RGUHS in the revised ordinance governing MDS degree course.

Final examination at the end of the third year.

SI.No	Procedure	Category	Year	Number
1	Injection I.M. and I.V.	PI	I,II	50, 20
2	Minor suturing and removal of sutures	PI	I	N,A
3	Incision & drainage of an abscess	PI	I	10
4	Surgical extraction	PI	I	15
5	Impacted teeth	PI, PA	I, II,	20,10
6	Pre prosthetic surgery- a. corrective procedures b. ridge extension c. ridge reconstruction	PI PI PA A	1 I, II II, III	15 3 3
7	OAF closure	PI, PA	I, II	3,2
8	Cyst enucleation	PI,PA	I, II	5,5
9	Mandibular fractures	PI,PA	LII	10,10
10	Peri-apical surgery	PI, PA	I	5
11	Infection management	PI,PA	I, II	NA
12	Biopsy procedures	PI	I, II	NA
13	Removal of salivary calculi	PA	I, II	3,5
14	Benign tumors	PA, A	II, III	3,3
15	mid face fractures	PA, A	II, III	3,5
16	Implants	PA,A	II, III	5,5 •
17	Tracheotomy	PA,A	II, III	2,2
18	Skin grafts	PA	III	3,5
19	Orthognathic surgery -	PA,A		3
20	Harvesting bone & cartilage grafts a. Iliac crest b. Rib c. Calvarial d. Fibula	PA A A A,O		3,5 3 2 2
21	T.M. Joint surgery	PA, A	II, I,	
22	Jaw resections	PA, A	III, II	3,3
23	Onco surgery	A,O	III, III	3,3
24	Micro vascular anastomosis	A,O	III	5,10
25	Cleft lip as palate	PA,A	II, Ili	10,15
26	Distraction osteogenesis	A,O	II, III	2,3
27	Rhinoplasty	A,O	III	3,5
28	Access osteotomies and base of skull surgeries	A,O	III	1,3

19. RECOMMENDED LIST OF TEXTBOOKS & JOURNALS:

TEXT BOOKS:

ANATOMY:

1. Henry Gray F.R.S-Grey's Anatomy .41st Edition
2. Frank H Netter-Netter's Clinical Atlas. 6th Edition

GROSS ANATOMY:

1. G. J. Romanes-Cunningham's Manual of Practical Anatomy .15th Edition

PHYSIOLOGY:

1. John E. Hall-Guyton and Hall Textbook of Medical Physiology. 13th Edition
2. W. F. Ganong-Review Of Medical Physiology .25th Edition
3. R. L. Bijlani-Understanding Medical Physiology. 4th Edition

PATHOLOGY:

1. Kumar, Abbas & Aster- Robbin's Pathologic Basic Of Disease .9th Edition
2. Harsh Mohan-Textbook Of Pathology 7th Edition

BIostatISTICS AND RESEARCH METHODOLOGY:

1. Indranil Saha & Bobby Paul-Essentials of Biostatistics .2nd Edition
2. H K Ramakrishnan - Medical Statistics. 2017 Edition

PHARMACOLOGY:

1. Laurence L Brunton - Goodman's And Gilman's The Pharmacological Basics of Therapeutics. 12th Edition
2. K D Tripathi - Essentials of Medical Pharmacology 7th Edition.
3. R S Satoskar, Nirmala. N Rege & S. D. Bhandarkar - Pharmacology and Pharmacotherapeutics. 24th Edition

GENETICS:

1. Robert L Nussbaum, Roderick R McInnes & Huntington F Willard-Thompson and Thompson Genetics in Medicine. 8th Edition

GROWTH AND DEVELOPMENT:

1. T.W.Sadler-Jan Langman's Embryology .13th Edition

ORAL AND MAXILLOFACIAL SURGERY:

1. Jens O. Andreasen , Jens Kolsen Petersen&Danial M Laskin-Textbook Of Color Atlas Of Tooth Impaction, Diagnosis, Treatment And Prevention 1st Edition
2. Killey H.C-Killey's Fractures Of Mandible . 1 St Edition
3. Killey H.C-Killey's Fractures Of The Middle Third Of The Facial Skeleton. 5th Edition
4. Edward Ellis III&Michael F Zile-Surgical Approaches To Facial Skeleton
5. Fonseca Oral And Maxillofacial Surgery
6. Fonseca , Barber&Matheson-Volume 1 Anesthesia And Pain Control Dentoalveolar Surgery Practice Management Implant Surgery .3rd Edition
7. Fonseca, Marciani&Turvey-Volume 2 Trauma, Surgical Pathology, Temporomandibular Disorders. 3rd Edition.
8. Turvey ,Sculty&Waite-Volume 3 Orthognathic Surgery Esthetic Surgery Cleft And Craniofacial Surgery. 3rd Edition
9. Bays &Quinn-Volume 4 Temporomandibular Disorders
10. William's And Stewart-Volume 5 Surgical Pathology
11. Fonseca, Baker, Wolford-Volume 6 Cleft/ Craniofacial / Cosmetic Surgery
12. Powers & Barber-Volume 7 Reconstructive & Implant surgery
13. Howe Geoffrey L-The Extraction Of Teeth .2nd revised edition
14. KabanPogrelPerrott-Complications In Oral And Maxillofacial Surgery
15. Laskin M Daniel-Laskin M Daniel Oral and Maxillofacial Surgery .1st Edition.
16. Stanley F Malamed-Handbook of Local Anesthesia. 6th Edition.
17. Stanley F Malamed-Medical Emergencies in Dental Office. 7th Edition.
18. Jeffrey R Okeson-Management of Tmd and Occlusion. 6th Edition
19. James R Hupp, Edward Ellis III&Myron R Tucker-Contemporary and Oral and Maxillofacial Surgery. 6th Edition.
20. N.L.RoweJ L L Williams-Maxillofacial Injuries (2- Volume Set)
21. Crispian Scully-Oral And Maxillofacial Medicine:The Basis Of Diagnosis And Treatment 3rd edition
22. John C Watkinson, Ralph W Gilbert- Stell and Maran's Textbook of Head and Neck Surgery and Oncology. 5th edition.
23. Jatin Shah, Snehal Patel&Bhuvanesh Singh- Jatin Shah's Head and Neck Surgery and Oncology. 5th edition.
24. Peterward Booth, Stephen A. Schendel&Jarg Erich Hausamen-Maxillofacial Surgery.2nd edition.
25. Andrew S Kaplan-The TMJ book.
26. Bruce N Epker, John P Stella&LewardC.Fish-Dentofacial Deformities. 2nd edition.

JOURNALS :

1. Journal of Oral and Maxillofacial Surgery
2. British Journal of Oral and Maxillofacial Surgery
3. International Journal of Oral and Maxillofacial Surgery
4. National Journal of Oral and Maxillofacial Surgery
5. Journal of Plastic and Reconstructive Surgery
6. Cleft Palate Craniofacial Journal
7. Oral and Maxillofacial Surgery Clinics of North America

**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:

Sl. No	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
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					
Total Score						

CHECKLIST-2
MODEL CHECK LIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of the Trainee:

Date:

Name of the Faculty / Observer:

SI 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					
Total score						

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

Name of the Trainee:
 Name of the Unit Head:

Date:

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					
Total score						

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:

Sl. No	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
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					
Grand Total						

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 0	Below 1	Average 2	Good 3	Very 4
1.	Interest show in selecting topic					
2.	Appropriate review					
3.	Discussion with guide and other faculty					
4.	Quality of protocol					
5.	Preparation of Proforma					
Total Score						

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

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.	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					
Total score						

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.										
TOTAL										

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 :

Date	Name	OP No.	Procedure	Category O, A, PA, PI

Key:

- C** - 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