

DENTISTRY BOARD MEETING DATED

:- 4-9-2017

FACULTY OF MEDICINE MEETING DATED

:- 27-09-2017

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SAURASHTRA UNIVERSITY

RAJKOT



FACULTY OF MEDICINE

Syllabus for Master of Dental Surgery (M.D.S.)

(1) PERIODONTOLOGY

(2) CONSERVATIVE DENTISTRY AND ENDODONTIC

Effective From Academic Year 2018-19

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25/3/17
12/12/17.

O.MDS 1: Short title and commencement.— (1) These regulations may be called the Dental Council of India, Master of Dental Surgery Course Regulations, 2017.

(2) They shall come into force on the date of their publication in the Official Gazette.

O.MDS 2: Definitions.— In these regulations unless the context otherwise requires:-

- (a) "Act" means the Dentists Act, 1948 (16 of 1948)
- (b) "the Council" means the Dental Council of India constituted under section 3 of the Act;
- (c) "dentistry" includes, _
 - (i) the performance of any operation on, and the treatment on any disease, deficiency or lesion of, human teeth or jaws, and the performance of radiographic work in connection with human teeth or jaws or the oral cavity;
 - (ii) the giving of any anesthetic in connection with any such operation or treatment;
 - (iii) the mechanical construction or the renewal of artificial dentures or restorative dental appliances;
 - (iv) the performance of any operation on, or the giving of any treatment, advice or attendance to, any person preparatory to, or for the purpose of, or in connection with, the fitting, inserting, fixing, constructing, repairing or renewing of artificial dentures or restorative dental appliances, and the performance of any such operation and the giving of any such treatment, advice or attendance, as is usually performed or given by dentists;
- (d) "NEET" means the National Eligibility-cum-Entrance Test conducted by the National Board of Examination for admission to post-graduate courses;
- (e) "University" means a university established or incorporated by or under a Central Act, a Provincial Act or a State Act, and includes any such institution as may, in consultation with the university concerned, be recognised by the University Grant Commission in accordance with the regulations made in this behalf under this Act.

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***GENERAL CONDITIONS TO BE OBSERVED BY POST GRADUATE TEACHING INSTITUTIONS**

O.MDS 3: GENERAL CONDITIONS.—(1) The institutions recognised by the Central Government and after consultation with the Council shall be eligible for conducting the post-graduate degree or diploma course(s).

- (2) The maximum number of students for a post-graduate course, for training for the award of post-graduate degree or diploma by the affiliating university, shall be determined by the facilities available in the department in terms of infrastructure, teaching staff and clinical teaching material. However, to start with, a maximum of three post-graduate students, (one Unit) shall be permitted in a speciality department. The annual intake capacity recommended by the Council and approved by the Central Government for the academic year shall be final. No institution shall be permitted to increase more than three seats at a time in its annual intake capacity in a particular speciality in a given academic year. Not more than two units consisting of six seats (including increase of seats) shall be granted to any dental institutions for each speciality.
- (3) The students undergoing post-graduate courses shall be exposed to the following:—
- (i) basics of bio-statistics and research methodology;
 - (ii) basics of human behaviour studies;
 - (iii) basics of pharmaco-economics;
 - (iv) introduction to the non-linear mathematics.

O.MDS 4: ETHICS IN DENTISTRY.—

There is a definite shift from the traditional patient and doctor relationship and delivery of dental care. With the advances in science and technology and the increasing needs of the patient, their families and community, there is a concern for the health of the community as a whole. There is a shift to greater accountability to the society. Dental specialists like the other health professionals are confronted with many ethical problems. It is therefore absolutely necessary for each and every one in the health care delivery to prepare themselves to deal with these problems. To accomplish this and develop human values, it is desired that all the trainees undergo ethical sensitization by lectures or discussion on ethical issues, discussion of cases with an important ethical component.

O. MDS 5: ELIGIBILITY FOR ADMISSION.—

A candidate for admission to the Master in Dental Surgery course, must possess a recognised 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/recognised 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.

O.MDS 6: 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 admission of the candidate shall be according to the directions of Central Admission Committee, Gujarat state. however, the changes from time to time may apply..

O.MDS 7: QUALIFYING CRITERIA FOR ADMISSION TO POST-GRADUATE COURSES.— (1) 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.

General	50 th Percentile
Person with locomotory disability of lower limbs	45 th Percentile
Scheduled Castes, Scheduled Tribes, Other Backward Classes	40 th Percentile

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:

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.

- (2) 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:
Provided that in determining the merit of candidates who are in service of Government/public authority, weightage in the marks may be given by the Government/competent authority as an incentive upto 10% of the marks obtained for each year of service in remote and/or difficult areas upto the maximum of 30% of the marks obtained in NEET. The remote and difficult areas shall be as defined by State Government / competent authority from time to time.
- (3) 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.

- (4) Minimum 5% seats of the annual sanctioned intake capacity shall be filled up by candidates with locomotory disability of lower limbs between 50% to 70%:

Provided that in case any seat in this quota remains unfilled on account of unavailability of candidates with locomotory disability of lower limbs between 50% to 70% then any such unfilled seat shall be filled up by persons with locomotory disability of lower limbs between 40% to 50% - before they are included in the annual sanctioned seats for general category candidates:

Provided further that this entire exercise shall be completed by each dental college/institution as per the statutory time schedule for admissions.

O.MDS 8: COMMENCEMENT OF ACADEMIC SESSION AND CUT-OFF DATE FOR ADMISSION.—

- (1) The academic session shall be commenced from 1st of May and the cut-off date for admission, even for stray vacancies, in the Master of Dental Surgery course shall be 31st of May, every year. The universities and other institutions shall start the admission process in such a way that teaching in post-graduate courses starts by 1st May each year for which they shall strictly adhere to the time schedule specified in the Dental Council of India (Establishment of new dental colleges, opening of higher courses of study and increase of admission capacity in existing dental colleges) Regulations, 2006.
- (2) There shall be no admission of students in respect of any academic session beyond the 31st May for post-graduate courses under any circumstances. The universities or institute shall not register any student beyond the said date; in case, any institution which grants admission to any student after the last date specified for the same shall also be liable to face such action including surrender of seats equivalent to the extent of such admission made from its sanctioned intake capacity for the succeeding academic year.
- (3) The Council may direct, that any student identified as having obtained his/her admission after the last date for closure of admission be discharged from the course of study, or any dental qualification granted to such a student shall not be a recognised qualification for the purpose of the Act.

O.MDS 9: COMMON COUNSELING.—(1) There shall be a common counseling for admission to all post-graduate courses (Diploma/MDS) in all dental educational institutions on the basis of merit list of the NEET.

3. The designated authority for counseling for the 50% All India Quota seats of the contributing States, as per the existing scheme for post graduate (Diploma/MDS) courses shall be the Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India. Further Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India shall conduct counseling for all post-graduate (Diploma/MDS) Courses in Dental Educational Institutions of the Central Government, Universities established by an Act of Parliament and the Deemed Universities.
- (3) The counseling for admission to post-graduate (Diploma/MDS) courses in all dental Educational Institutions in a State/Union Territory, including dental educational institutions established by the State Government, University established by an Act of

State/Union Territory Legislature, Trust, Society, Minority Institutions shall be conducted by the State/Union Territory Government.

- (4) In case, any dispute arises on such common counseling, the matter to the Central Government and its decisions shall be final, in this regard.

O.MDS 10: INFORMATION ON ADMISSION AND SCHEDULE OF EXAMINATION.—Every dental institution and its affiliating university shall furnish information on admissions in the courses of study, schedule of examinations to the Council, in such form as the Council may specify, within stipulated period from time to time.

O.MDS 11: PERIOD OF TRAINING.—(1) The period of training for the award of the MDS course shall be of three years duration for three academic years as full time candidates in an institution including the period of examination:

Provided that the time period required for passing out of the MDS course shall be a maximum of six years from the date of admission in said course:

Provided further that the duration of the post-graduate course for the post-graduate Diploma holders shall be of two years in the respective speciality. The syllabus and curriculum shall be the same as MDS Course in the concerned speciality except that they are not required (i) to undergo study and training in Basic Sciences and (ii) pass the PART-I Examination of MDS Course. However, they have to submit the dissertation work, as part of the post-graduate programme.

(2) During the period, each student shall take part actively in learning and teaching activities design of training, by the institution or the university. The teaching and learning activities in each speciality, shall be as under:—

(a) **LECTURES:**

There shall be some didactic lectures in the speciality 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.

(b) **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.

(c) **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.

(d) **SYMPOSIUM:**

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

(e) **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.

(f) **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.

(g) **INTER-DEPARTMENTAL MEETINGS:**

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

(h) **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.

(i) **DENTAL EDUCATION PROGRAMMES:**

Each department shall organise 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.

(j) **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 speciality and allied conferences / conventions during the training period.

(k) **ROTATION AND POSTING IN OTHER DEPARTMENTS:**

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

(l) **DISSERTATION / THESIS:**

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. 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.

(3) **Division Of Course/Learning Activities**

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

		1 st year	2 nd year	3 rd year
a)	Journal Clubs	5 in a year	5 in a year	5 in a year
b)	Seminars	5 in a year	5 in a year	5 in a year
c)	Clinical Case presentation	4 in a year	4 in a year	4 in a year
d)	Lectures taken for the undergraduates	1 in a year	1 in a year	1 in a year
e)	Scientific Paper/Posters Presentation 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	-

O MDS 12: STIPEND. _ The post-graduate students shall be paid stipend only for duration of three years of the course, as may be fixed by the Central Government/State Government/Union Territory Administration or such authority as the respective Government/administration may authorise. Where any dispute arises regarding any such stipend, including, quantum of stipend, it shall be considered and decided by the Central Government/respective State Government/Union Territory Administration at its own level and its decision shall be final.

O MDS 13: MIGRATION: Under no circumstances, the migration or the transfer of students undergoing post-graduate Degree/Diploma shall not be permitted by the university or the authority. No inter-change of the speciality in the same institution or in any other institution shall be permitted after the date of the commencement of session.

O.MDS 14: INFRASTRUCTURE AND FUNCTIONAL REQUIREMENTS :

- (1) **Space:** In addition to the undergraduate functional, facilities, the following physical facilities shall be made available to start a post-graduate training programme, namely:—
 - (a) a minimum of 125 sq ft. area for each dental chair in the clinic. The area of the clinic shall be in accordance with the number of dental chairs required to be placed in the department;
 - (b) each department shall be equipped with a seminar hall, library, sterilization room, (800 to 1000 sq.ft.)
- (2) **Equipment:** Each department shall have adequate number of standard equipments available in the market as approved by the ISI.

The details of equipments specialities / unit wise is annexed as Schedule –VII to these regulations.
- (3) **Library:** (a) There shall be a central library which shall provide the latest editions of books pertaining to the speciality and allied subjects. In additions to this, the departmental library shall be equipped with the latest books in the subjects concerned. In case, the central library is shared with the medical college, there shall be provision for additional space and separate budget for the dental college.
 - (b) In addition to books and journals in the library, internet, CDs, audio-visual facilities should be available.
 - (c) Minimum 15-20 titles of renowned authors, 4-6 international journals of the concerned speciality, alongwith 8-10 volumes of back issues of atleast 3 international journals of the concerned speciality should be available.

- (d) All the journals of the speciality and allied subjects shall be available out of which 50% should be in print form.

Note: All the existing dental institutions shall comply with these requirements except the land requirement of five acres within a period of *three* years from the date of publication of these regulations in the Official Gazette.

***STAFFING PATTERN FOR POST-GRADUATE COURSE**

O.MDS 15: TEACHING STAFF:

In a unit, two post-graduate students shall be guided by a Professor and one student by a Reader or an Associate Professor. To strengthen and maintain the standards of post-graduate training, the following unit-wise staffing pattern has been made mandatory, for the starting of a post-graduate course, namely:-

Unit 1 :-

Departments/Specialty	Minimum faculty requirement of 1 st Unit in an undergraduate institute having basic infrastructure of 50 admissions		
	Professor (HOD)	Readers/ Associate Professors	Lecturers/Assistant Professor
Prosthodontics and Crown & Bridge	1	3	4
Conservative Dentistry and Endodontics	1	3	4
Periodontology	1	2	2
Orthodontics & Dentofacial Orthopedics	1	2	2

Departments/Specialty	Minimum faculty requirement of 1 st Unit in an undergraduate institute having basic infrastructure of 50 admissions		
	Professor (HOD)	Readers/ Associate Professors	Lecturers/Assistant Professor

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Oral & Maxillofacial Surgery		1	2	2
Oral & Maxillofacial Pathology and Microbiology	Oral	1	2	2
Oral Medicine & Radiology		1	2	2
Pediatric Dentistry		1	2	2
Public Health Dentistry		1	2	2
Departments/Specialty	Minimum faculty requirement of 1 st Unit in an undergraduate institute having basic infrastructure of 100 admissions			
		Professor (HOD)	Readers/ Associate Professors	Lecturers/Assistant Professor
Prosthodontics and Crown & Bridge		1	3	6
Conservative Dentistry and Endodontics		1	3	6
Periodontology		1	3	3
Orthodontics & Dentofacial Orthopedics		1	2	3
Oral & Maxillofacial Surgery		1	3	3
Oral & Maxillofacial Pathology and Oral Microbiology		1	2	3
Oral Medicine & Radiology		1	2	3
Pediatric Dentistry		1	2	3
Public Health Dentistry		1	2	3

Unit 2 :-

Each department shall have the following additional teaching faculty, over and above the requirement of Unit 1.

Professor	1
Reader/Associate Professor	1
Lecturer/Asst. Professor	2

Note:-The department, which does not have the above staffing pattern, shall not start post-graduate course in that speciality.

O.MDS 16 PART-TIME PROFESSOR.—

Part-time professor who can put in at list four hours a day or eighty hours in a month are eligible to enroll only one post-graduate student under them and they shall be entitled to 50% of leave entitled for regular teaching faculty.

O.MDS 17: AGE, EDUCATIONAL QUALIFICATIONS AND TEACHING EXPERIENCE.—

(a) **HEAD OF THE DEPARTMENT:**

A Bachelors Degree in Dental Surgery from an Indian University with Masters in Dental Surgery / Diplomate of National Board recognised by the Government of India on the recommendations of the Council, and with one year teaching experience in the speciality as Professor, and shall have to acquire minimum points for publications as per the scheme given in the table.

(b) **PROFESSOR:**

A Bachelors Degree in Dental Surgery from an Indian University with Masters in Dental Surgery / Diplomate of National Board recognised by the Government of India on the recommendations of the Council, and with five years of teaching experience in the speciality as Reader/Associate Professor, and shall have to acquire minimum points for publications as per the scheme given in the table.

(c) **READER/ASSOCIATE PROFESSOR:**

A Bachelors Degree in Dental Surgery from an Indian University with Masters in Dental Surgery / Diplomate of National Board recognised by the Government of India on the recommendations of the Council, and with four years of teaching experience in the speciality after post-graduation, and shall have to acquire minimum points for publications as per the scheme given in the table.

(d) **LECTURER/ASSISTANT PROFESSOR:**

A Bachelors Degree in Dental Surgery from an Indian University with Masters in Dental Surgery / Diplomate of National Board recognised by the Government of India on the recommendations of the Council, in the speciality.

Note:

1. All the regular teaching faculty shall be full time.
2. Teaching experience gained in medical college, where there are no dental courses, shall not be accepted for teaching post-graduate students. Dental faculty with post-graduate qualification in dentistry, shifting from the dental department of a medical college shall have to complete minimum of three years of teaching experience in a dental college or institution before being accepted as post-graduate faculty.
3. In exceptional cases, the teaching experience, in Government dental colleges, may be considered for further promotion on the basis of total teaching experience.
4. The Reader/Associate Professor in a dental college shall attend teachers training program once in three years.
5. The Senior Residents with post-graduate qualification or Diplomate of National Board recognised by the Council, in the speciality having teaching experience in dental colleges may be considered equivalent to Lecturer/Assistant Professor.
6. Teaching experience in a private dental institution for less than one year shall not be considered relevant for post-graduate faculty.
7. The maximum age limit upto which a person can be appointed or granted extension or re-employed in service against the posts of dental teachers or Dean or Principal, as the case shall be, sixty five years.

Table – 1

	Category	Points
	Category I:	
	(1) Journals Indexed to Pubmed – Medline Please see- www.ncbi.nlm.nih.gov/pubmed	15
	(2) Journals published by Indian/International Dental Speciality Associations approved by Dental Council of India.	
	Category II:	
	(1) Medical / Dental Journals published by Government Health Universities awarding	10

dental degree or Govt. Universities awarding dental degree (2) Original Research/Study approved by I.C.M.R/Similar Govt. Bodies (3) Author of Text / Reference Book concerned to respective specialty (4) PhD. or any other similar additional qualification after MDS	
Category III: (1) Journals published by Deemed Universities / Dental Institutions / Indian Dental Association (2) Contribution of Chapters in the Text Book	5

Note:-

1. For any publication, except original research, first author (principal author) shall be given 100% points and remaining authors (co-authors) shall be given 50% points and upto a maximum of 5 co-authors will be considered.
2. For original research, all authors shall be given equal points and upto a maximum of 6 authors shall be considered.
3. Maximum of 3 publications shall be considered for allotting points in Category III.
4. Publication in tabloids / souvenirs / dental news magazines / abstracts of conference proceedings / letter of acceptance shall not be considered for allotment of points.

Total Score Required:

For Head of Department:

40 marks

Professor:

30 marks

Reader/Associate Professor:

20 marks

IMPORTANT:

1. A post-graduate teacher would be re-evaluated every three years and shall have at least an additional 15 points in their score.
2. A **Journal Review Expert Committee** may be formed which shall enlist all the available international and Indian dental journals in various categories. The list would be displayed on the Council's website. The Committee shall also be responsible for making annual review of the list of journals and shall continuously monitor the standard of publications in various journals and the categories of publications may be upgraded / downgraded, if the standard is not maintained by the journal. In case of any dispute, the recommendation of the Expert Committee shall be reviewed by the Executive Committee and decision of the Executive Committee would be final.

EXAMINATIONS

O.MDS 18 EXAMINATIONS._

(a) 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.

(b) UNIVERSITY EXAMINATION._

The university examination shall consist of theory, practical and clinical examination and viva-voce and Pedagogy

(i) 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 three papers, namely:—

- (ii) Practical and Clinical Examination;
- (iii) Viva-voce; and
- (iv) Pedagogy.

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

(c) 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 re-submit his/ her dissertation to the examiner who shall accept it before appearing in the examination.

(d) **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. The affiliating university shall ensure that the candidate has been given ample opportunity to perform various clinical procedures.

The practical/clinical examination in all the specialities 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.

(e) **VIVA-VOCE EXAMINATION:**

Viva voce examination aims at assessing the depth of knowledge, logical reasoning, confidence and communication skill of the students.

(f) **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. Distribution of topics for each paper will be as follows:

Part-I : Applied Basic Sciences: Applied Anatomy, embryology, growth and development Genetics, Immunology, anthropology, Physiology, nutrition & Biochemistry, Pathology & Microbiology, virology, Applied pharmacology, Research Methodology and bio statistics, Applied Dental anatomy & histology, Oral pathology & oral Microbiology, Adult and

Part-II	geriatric psychology. Applied dental materials.
Paper-I	Removable Prosthodontics and Implant supported prosthesis (Implantology), Geriatric dentistry and Cranio facial Prosthodontics
Paper-II	Fixed Prosthodontics, occlusion, TMJ and esthetics.
Paper-III	Essays

**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.*

(g) **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 and Clinical Examination :

200 Marks

Viva-voce and Pedagogy :

100 Marks

O.MDS 19: 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.

O.MDS 20: 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.

O. MDS 21 VEXAMINATION CENTRE:

- (1) In the event of university exam being conducted in the same city or town having more than one post-graduate institution under the same university, one central examination centre shall be fixed by the university and the students from all the institutions of the city shall take the examination in that center: Provided that the clinical and viva-voice shall be conducted at their institute.
- (2) Rotation of the institutions as center of examination shall be as per direction of the university.

O.MDS 22: VALUATION OF ANSWER BOOKS:

Part-I : Answer book/s shall be evaluated by the internal and external examiner/s

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

O.MDS 23: CRITERIA FOR PASS CERTIFICATE:

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.

Criteria for Gold Medal

Gold medal will be awarded to the candidate who score total highest marks (total of theory and practical) in respective branch.

SYLLABUS

The syllabus for post-graduate course includes both Applied Basic Sciences and subjects of concerned specialty. The syllabus in Applied Basic Sciences shall vary according to the particular speciality, similarly the candidates shall also acquire adequate knowledge in other subjects related to their respective speciality.

O.MDS 24: SYLLABUS DISTRIBUTION IN VARIOUS SPECIALITIES:

(i) PROSTHODONTICS AND CROWN & BRIDGE

Part-I

Paper-I : **Applied Basic Sciences:** Applied anatomy, embryology, growth and development Genetics, Immunology, anthropology, Physiology, nutrition and Biochemistry, Pathology and Microbiology, virology, Applied pharmacology, Research Methodology and bio statistics,, Applied Dental anatomy and histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.

Part-II

Paper-I : Removable Prosthodontics and Implant supported prosthesis(Implantology), Geriatric dentistry and Cranio facial Prosthodontics
Paper-II : Fixed Prosthodontics, occlusion, TMJ and esthetics.
Paper-III : Descriptive and analysing type question

(ii) PERIODONTOLOGY

Part-I

Paper-I : **Applied Basic Sciences:** Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

Part-II

Paper I : Normal Periodontal structure, Etiology and Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics
Paper II : Periodontal diagnosis, therapy and Oral implantology
Paper III : Descriptive and analysing type question

(iii) **ORAL & MAXILLOFACIAL SURGERY**

Part-I

Paper-I : **Applied Basic Sciences:** Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

Part-II:

Paper-I : Minor Oral Surgery and Trauma

Paper-II : *Maxillo-facial Surgery*

Paper-III : Descriptive and analysing type question

(iv) **CONSERVATIVE DENTISTRY AND ENDODONTICS**

Part-I

Paper-I : **Applied Basic Sciences:** Applied Anatomy, Physiology, Pathology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology and Applied Dental Materials.

Part-II

Paper-I : Conservative Dentistry

Paper-II : Endodontics

Paper-III : Descriptive and analysing type question

(v) **ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS**

Part-I

Paper-I : **Applied Basic Sciences:** Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.

Part-II

Paper-I : Orthodontic history, Concepts of occlusion and esthetics, Child and Adult Psychology,

Etiology and classification of malocclusion, Dentofacial Anomalies, Diagnostic procedures and treatment planning in Orthodontics, Practice management in Orthodontic

Paper II : Clinical Orthodontics

Paper III : Descriptive and analysing type question

(vi) **ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY:**

Part-I

Paper-I : **Applied Basic Sciences:** Applied anatomy, Physiology (General and oral), Cell Biology, General Histology, Biochemistry, General Pathology, General and Systemic Microbiology, Virology, Mycology, Basic Immunology, Oral Biology (oral and dental histology), Biostatistics and Research Methodology

Part-II:

Paper-I : *Oral pathology, Oral Microbiology and Immunology and Forensic Odontology*

Paper-II : *Laboratory techniques and Diagnosis and Oral Oncology*

Paper-III : Descriptive and analysing type question

(vii) **PUBLIC HEALTH DENTISTRY**

Part-I

Paper-I : **Applied Basic Sciences:** Applied Anatomy and Histology, Applied Physiology and Biochemistry, Applied Pathology, Microbiology, Oral Pathology, Physical and Social Anthropology, Applied Pharmacology and Research Methodology and Biostatistics.

Part-II:

Paper-I : Public Health

Paper-II : Dental Public Health

Paper-III : **Descriptive and analysing type question**
(viii) **PEDIATRIC DENTISTRY**

Part-I

Paper I : **Applied Basic Sciences** : Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics Growth and Development and Dental plaque, Genetics.

Part-II:

Paper-I : Clinical Pedodontics

Paper-II : Preventive and Community Dentistry as applied to pediatric dentistry

Paper-III : Descriptive and analysing type question
(ix) **ORAL MEDICINE AND RADIOLOGY**

Part-I

Paper I : **Applied Basic Sciences:** Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics

Part-II:

Paper-I : Oral and Maxillofacial Radiology

Paper-II : Oral Medicine, therapeutics and laboratory investigations

Paper-III : Descriptive and analysing type question

GOALS AND OBJECTIVES OF THE CURRICULUM

O.MDS 25: GOALS.—

The goals of the post-graduate training in various specialities is to train the graduate in Dental Surgery who will,

- (i) practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;
- (ii) exercise empathy and a caring attitude and maintain high ethical standards;
- (iii) continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice;
- (iv) willing to share the knowledge and skills with any learner, junior or a colleague;
- (v) to develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.

O.MDS 26: OBJECTIVES.—

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

The objectives to be achieved by the candidate on completion of the course may be classified as under:—

- (a) Knowledge (Cognitive domain)
- (b) Skills (Psycho motor domain)
- (c) Human values, ethical practice and communication abilities

(a) KNOWLEDGE.—

- (i) demonstrate understanding of basic sciences relevant to speciality;
- (ii) describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children;
- (iii) identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment;
- (iv) recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist;
- (v) update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality;
- (vi) undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering;

(b) SKILLS:

- (i) take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition;
- (ii) acquire adequate skills and competence in performing various procedures as required in the speciality.