

DENTAL COUNCIL OF INDIA

M.D.S. Course REGULATIONS 1983



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PREFACE

M.D.S. Course REGULATIONS 1983

Framed by the Dental Council of India and approved by the Central Government under the Dentists Act, 1948 – vide Government of India, Ministry of Health & Family Welfare (Deptt. of Health)'s letter No. V.12017/1/80-PMS dated 4.7.1983.

No. U. 13011/1/72-ME(UG)
Bharat Sarkar
Swasthaya Aur Parivar Niyojan Mantralaya
(Swasthaya Vibhag)

New Delhi, 17th February, 1972

To

- (1) All State Governments/Union Territories,
- (2) All Universities.

Sub :- Opening of new Dental Colleges and Post-graduate Dental Departments - Seeking of prior approval of the Dental Council of India.

Sir,

I am directed to say that under the Dentists Act, 1948, the Dental Council of India is charged with the responsibility for according recognition to the Dental Degrees awarded by the various Universities and also for maintaining uniform standards of Dental education in the country. In the discharge of its functions and responsibilities, the Council inspects the various Dental institutions and brings the deficiencies observed to the notice of the authorities concerned for suitable remedial action.

2. Before Dental College or a Post-graduate Dental Department is set up, it should essentially fulfil certain minimum requirements in respect of the staff, equipment, buildings etc. Without these pre-requisites, it is hardly possible to ensure that the students joining these institutions will be able to attain the Dental Education of the prescribed standard. In fact recognition of the qualifications of the students hinges on fulfilment of these prerequisites.

3. With a view to maintaining high standards of academic institutions introducing new Dental courses, it is requested that the State/Union Territory Governments and the Universities may kindly ensure that :-

- (a) that no Dental College is permitted to start functioning unless and until the Dental Council of India has satisfied itself through inspection or otherwise that the teaching staff, equipment, building, etc., provided for, are in conformity with the minimum requirements as laid down by the Council and approved by the Central Government; and
- (b) That no Dental Institution is Permitted to start Post-graduate Course(s) unless and until the Dental Council of India has satisfied itself, through inspection or otherwise, that the minimum requirements in respect of teaching staff,

equipment etc., have been fully provided for in respect of B.D.S. Courses and that the teaching staff, equipment etc., for the Post-graduate course(s) are in conformity with the minimum requirements laid down by the Dental Council of India and approved by the Central Government.

4. The receipt of this letter may kindly be acknowledged.

Yours faithfully,
Sd/-
(N. S. BHATIA)
UNDER SECRETARY

No. U. 13011/1/72-ME(UG)

Copy forwarded for information of the :-

- (1) The Secretary, Dental Council of India, Temple lane, Kotla Road, New Delhi, with reference to their letter No.DE-14-69/7191 dated the 3rd January, 1970.
- (2) The D.G.H.S., New Delhi.
- (3) M.P.T. Section with reference to their File No. 3-3/70-MPT.

Sd/- N. S. BHATIA
Under Secretary

C O N T E N T S

1. Preamble
2. Regulations for the M.D.S. Degree
3. Staffing Pattern for Post-Graduate Degree Programme in a Dental College/Wing
4. Minimum Requirements to start M.D.S. Courses in a Dental College/Wing
5. Minimum Requirements to start M.D.S. Course for Institutions other than Dental Colleges
6. Criteria for selection for admission to the M.D.S. Course
7. Syllabus for Applied Basic Sciences
8. Syllabus for Prosthetic Dentistry – MDS
9. Syllabus for Oral & Maxillofacial Surgery – MDS
10. Syllabus for Periodontics – MDS
11. Syllabus for Conservative Dentistry – MDS
12. Syllabus for Oral Pathology & Microbiology – MDS
13. Syllabus for Orthodontics – MDS
14. Syllabus for Paedodontics – MDS
15. Syllabus for Oral Medicine & Radiology – MDS
16. Syllabus for Community Dentistry – MDS
17. Qualifications for Examiner or Inspector for Post graduate Degree Programme

P R E A M B L E

General: The nomenclature used for various Postgraduate subjects should be uniform in all the Universities.

Objective of the MDS Courses

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 a competence in research and its methodology as related to the field concerned.

Definitions of Speciality Areas of Dental Science

1. Prosthodontics

That branch of Dental art and science pertaining to the restoration and maintenance of oral function, health, comfort and appearance by the replacement of missing or lost natural teeth and associated tissues either by fixed or removable artificial substitutes.

2. Periodontics

Periodontics is the science dealing with the health and diseases of the investing and supporting structures of the teeth and oral mucous membrane.

3. Oral and Maxillofacial Surgery

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

4. Conservative Dentistry

Conservative dentistry deals with prevention and treatment of the diseases and injuries of the hard tissues and the pulp of the tooth and associated periapical lesions.

5. Orthodontics

Deals with prevention and correction of oral anomalies and malocclusion and the harmonising of the structures involved, so that the Dental mechanism will function in a normal way.

6. Oral Pathology

Oral Pathology deals with the nature of oral diseases, their causes, processes and effects. It relates the clinical manifestation of oral diseases to the physiologic and anatomic changes associated with these diseases.

7. Community Dentistry

Community Dentistry is the science and art of preventing and controlling Dental diseases and promoting Dental health through organised community efforts.

8. Paedodontics

Deals with prevention and treatment of oral and Dental ailments that may occur during childhood.

9. Oral Medicine and Radiology

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

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

REGULATIONS FOR THE MDS DEGREE

No Institution can start a postgraduate course without prior approval of the Council.

1. A candidate for admission to the MDS course (Master of Dental Surgery) must have a degree of BDS (Bachelor of Dental Surgery) of an Indian University or an equivalent qualification recognised by the Dental Council of India. Candidate not possessing a recognised Dental qualification for the above purpose should secure the prior approval of his qualifications by the Dental Council of India before he can be admitted to the MDS course of any University in India.

2. GENERAL

- i. The number of admissions to MDS courses in each speciality shall not be more than 2 students per postgraduate teacher per year.
- ii. At any one time there shall be not more than 4 active, students under one postgraduate teacher.
- iii. No postgraduate teacher shall enrol candidates for a discipline other than the subject of his speciality for postgraduate programme and no postgraduate teacher shall be a postgraduate teacher for more than one speciality.
- iv. When the Department is headed by a recognised postgraduate Professor, the Assistant Professor of the Department, who is in possession of the requisite qualification and teaching experience in the subject of speciality, may be permitted to enrol one student per year under him as a post-graduate teacher and guide.
- v. At the discretion of the authorities concerned, provision may be made for reserving certain seats for candidates from other State where facilities for Postgraduate training is not available in a particular speciality.

3. The following are the subjects of speciality for the MDS Degree:

- i. Prosthodontics
- ii. Periodontics
- iii. Oral & Maxillofacial Surgery
- iv. Conservative Dentistry
- v. Orthodontics
- vi. Oral Pathology
- vii. Community Dentistry
- viii. Paedodontics & Preventive Dentistry
- ix. Oral Medicine & Radiology

4. All the candidates for the degree of MDS are required to pursue the prescribed course for at least two academic years as full time candidates in an approved

Institution under the direction of the Head of the Department, who has to be a recognised postgraduate teacher in that speciality.

5. The course will be of two years duration.
6. **Attendance :** The candidate should have attended not less than 80 percent of the classes of MDS course in each of the subjects.
7. There shall be only one Examination at the end of two years. There shall be four papers for the Examination out of which one paper shall be in Applied Basic Sciences consisting of Applied Anatomy, Applied Physiology and Applied Pathology.

There shall be no Viva-voce or Practical for the Paper on Applied Basic Sciences.

8. The subjects of study in Applied Basic Medical Subjects shall be as under:

Compulsory Subjects :-

Applied Anatomy,
Applied Physiology, &
Applied Pathology.

Optional Subjects :-

- i. Biostatistics
- ii. Nutrition and Dietetics
- iii. Teaching and Testing Methodology
- iv. Research Methodology
- v. Psychology and Practice Management.
- vi. Comparative Anatomy
- vii. Genetics Growth and Development
- viii. Applied Chemistry including Metallurgy, Dental Materials including Metallurgy.
- ix. Pharmacology.

9. A candidate shall choose any two of the above available optional subjects.

No candidate will be admitted to MDS Degree Examination unless he produces a certificate of having completed the MDS Course to the satisfaction of the Head of the Department concerned and the Head of the Institution.

A student after successful completion of the course shall appear for the MDS Degree Examination at the end of 2 years. The Council, however, encourages Universities or Dental institution to have a longer period of training

as the present recommendations are only the minimum requirements. Only in exceptional case where the above rule cannot be fulfilled, the Council's approval should be obtained.

The University shall hold an examination every six months.

- a. Written
- b. Clinical and/or Practical
- c. Viva voce or oral examination

The written examination shall consist of four papers, out of which two shall be pertaining to the speciality; one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of three hours duration

10. Every candidate appearing for the MDS degree examination for the first time shall submit with his application for the admission to the Examination, four typewritten copies of a dissertation of a research problem undertaken by the candidate and Prepared under the direction and guidance and to the satisfaction of his University teacher. The dissertation should be submitted 3 months prior to the MDS Examination. The dissertation shall be referred to the Examiners for the MDS examination and acceptance of it by the examiners shall be a condition precedent to the admission of the candidate to the written part of the examination.
11. A candidate whose dissertation has been accepted by the examiners, but who is declared to have failed at the examination will be permitted to reappear at the subsequent MDS examination without having to prepare a new dissertation, If, however, the dissertation is rejected, the authorities shall give reasons thereof and suggestion for the improvement of the same and the dissertation thus improved will have to be resubmitted to the examiners and accepted before appearing in MDS Examination.
12. A candidate who wishes to study for MDS in a second speciality shall be exempted from taking courses in Applied Basic Science subjects. The duration of the course for such a candidate will be one and a half year. He shall fulfill all other requirements for MDS including a fresh dissertation.
13. A candidate who is declared successful in the MDS Examination shall be granted a Degree of Master of Dental Surgery in the speciality.

STAFFING PATTERN FOR POSTGRADUATE DEGREE PROGRAMME IN A DENTAL COLLEGE/DENTAL WING

Staff

1. a. Professor, Assistant Professor and Junior Staff as proposed under the BDS Regulations, etc. of 1978. However, the council encourages the creation of an additional post of Assistant-Professor in the Post-graduate Departments in the interest of better teaching standards.
- b. A Department which does not have a Professor and an Assistant Professor with requisite qualifications and experience, as laid down by the Dental Council of India, shall not start a postgraduate course in that speciality.

Qualifications for a Professor and Head of the Postgraduate Department

- i. He must possess a postgraduate qualification in the subject of speciality, recognised by the Dental Council of India,
- ii. He should be a full-time teacher.
Part-time Professors are also eligible provided they put in 4 hours a day and have only one candidate under them.
- iii. He must have teaching experience of 10 years of which 5 years should be as Reader/Senior Lecturer/Assistant Professor.
(Where a Department is headed by an Assistant Professor/Reader/Senior Lecturer with the requisite qualification and experience as recommended for the Professor, he may be permitted to start postgraduate studies in the subject provided he fulfils all the requirements as laid down by the Dental Council of India).

Assistant Professor for MDS Course

Same as for BDS Staffing Pattern viz. a BDS degree of an Indian University or an equivalent qualification with postgraduate qualification in the subject with 3 years teaching experience after postgraduation in the subject of specialisation.

When the full complement of staff recommended for undergraduate training programme does not exist, the deficiency must be made good before starting of the postgraduate course in that Department.

MINIMUM REQUIREMENTS TO START MDS COURSES IN A DENTAL COLLEGE/WING

Physical Facilities

1. Space – Adequate space for clinic, seminar rooms and research space should be provided.
2. Equipment – All equipment recommended under BDS programme as well as equipment of special nature required for advanced type of clinical and research work should be provided for postgraduate students.

Additional General Requirement for Postgraduate Department :-

Necessary Microscopes 35 mm Projector, Microtomes, Cabinets for keeping slides, Photographic Materials specially a 35 mm Camera with all the accessories.

3. a. Library – All recent editions of relevant books should be available for the use of postgraduate students in the departmental library.
- b. As many related journals as possible should be subscribed for. Relevant old journals should be provided.

MINIMUM REQUIREMENTS TO START MDS COURSE FOR INSTITUTIONS OTHER THAN DENTAL COLLEGES

Rules and Regulations for Institution where the BDS programme does not exist but which wishes to start a MDS Course in a speciality.

Medical Institutions wanting to start MDS Courses should satisfy the following requirements in addition to what has been recommended already for Dental Colleges :

1. The Institution must be running medical postgraduate courses.
2. The Department should have qualified and experienced teachers following the three tier system as recommended under the BDS programme viz :
 - a. Professors
 - b. Readers
 - c. Lecturers

The Professor and Reader should have requisite postgraduate qualification and teaching experience as recommended under the MDS Courses in a Dental College/Dental Wing.

3. All physical facilities including equipment, department library and journals as prescribed under MDS Courses in a Dental College should be available.

4. Training facilities for all Applied Basic Science subjects should be available.

Any of the Institutions, which are not Dental colleges, but want to start a MDS Course, should make an application to the Dental Council of India, which will send out not less than two inspectors, who would inspect the Institution and report to the Council the feasibility of giving such permission to start an MDS Course in the speciality applied for.

(The above statement is made with the full knowledge that there are many Institutions, not being Dental colleges, have excellent facilities and expertise in certain subjects of Dental specialities far better than those at many Dental colleges, which could be made use for the betterment of the Profession. This Council is of the opinion that such institutions which are not Dental Colleges, should be encouraged and helped to develop MDS Courses in the speciality of Dentistry in which they have expertise).

However, such Institutions will not be considered as Dental Colleges/Dental Wings.

CRITERIA FOR SELECTION FOR ADMISSION TO THE MDS COURSE

1. Students for MDS Courses should be admitted on academic merit at BDS level.
2. Preference may be given to candidates having experience as University Teachers, House, Surgeons or Clinical Assistants or to persons in State or Central Government Services who have served in rural areas or in Defence Services.

"There would be two types of Postgraduate students :-

- (a) Those holding posts in the same Department like Demonstrator/Tutor. Adequate number of paid posts may be created so that such candidates can pursue in-service Postgraduate training. Seats allotted to in-service students shall be restricted to not more than one third of the total admission in the Department.
- (b) Those receiving stipends. The stipends should not be less than Rs. 300/- per month.

Selection of postgraduate candidates should be done by a Selection Committee consisting of concerned Postgraduate Teachers.

SYLLABUS FOR APPLIED BASIC SCIENCES

The M.D.S. Course in Applied Basic Science shall be common to all the specialities. It shall consist of the following compulsory subjects:

Compulsory Subjects :

- (i) Applied Anatomy
- (ii) Applied Physiology
- (iii) Applied Pathology.

Optional Subjects :

1. Biostatistics
2. Nutrition and Dietetics
3. Teaching and Testing Methodology
4. Research Methodology
5. Psychology and Practice Management
6. Comparative Anatomy
7. Genetics Growth and Development
8. Applied Chemistry including Metallurgy, Dental Materials

A candidate shall choose any two of the above optional subjects.

During the MDS Course the students will pursue the course prescribed for the MDS Examination by attending clinics, seminars and lectures.

In MDS Degree examination of all specialities preventive and social aspects shall be emphasised.

SYLLABUS FOR PROSTHETIC DENTISTRY – MDS

Its practical, clinical and practical courses in Prosthetic Dentistry shall broadly comprise of the Following:

1. Study of human masticatory apparatus and its functions in health, in deranged occlusal states and in conditions incidental to partial or complete loss of teeth and/or facial structures.
2. Study of the principles, procedures and techniques of constructing and maintaining various types of dentures and allied prosthesis including the material used.
3. Study of biological and mechanical consideration related to various types of dentures and allied prosthesis.
4. A candidate should complete not less than 30 cases comparison of all types of prosthetic appliances.

5. The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of 3 hours duration.

Clinical and practical and viva voce examination of not less than two days duration involving case studies, diagnosis and treatment planning and execution of commonly used prosthetic appliances and replacement.

SYLLABUS FOR ORAL AND MAXILLOFACIAL SURGERY - MDS

A broad outline of theoretical, clinical and practical courses:

1. Embryology and gross anatomy of head and neck in relation to oral and maxillofacial surgery.
2. Principles of General and Oral Surgery.
3. Laboratory Investigations.
4. Surgical Anatomy and Pathology of Head and Neck.
5. Applied Radiology
6. Surgical procedures for
 - a. Diseases and defects of orofacial region
 - b. Surgical management
 - c. Prosthetic and orthodontic problems including principles of plastic surgery
 - d. Recent advances in oral and maxillofacial surgery
 - e. Reimplantation of teeth
 - f. Implants-commonly used surgical techniques for implant procedures.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of 3 hours duration.

Clinical and practical examination of not less than 2 days duration involving case studies, diagnosis and treatment planning and execution of commonly used surgical procedures in oral surgery.

SYLLABUS FOR PERIODONTICS – MDS

A broad outline of theoretical, clinical and practical courses.

1. Applied anatomy, physiology, biochemistry of the periodontium.
2. Characteristics of periodontal disease, etiology, pathogenesis and microbiology.
3. Periodontal therapeutics.
4. Surgical aspects of periodontics.
5. Traumatic periodontal disturbances.

6. Interrelationship of periodontics with other Dental and medical clinical disciplines.
7. Public health aspects of periodontal diseases-preventive Periodontics.
8. Current advances in periodontics.

Clinical Proficiency: A candidate should attain clinical proficiency by treating not less than 50 cases of periodontal diseases involving different therapeutic techniques.

The MDS written examination shall consist of four paper, out of which two shall be pertaining to the subject one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of 3 hours duration.

Clinical and practical examination of not less than 2 days duration involving case studies, diagnosis and treatment methods used in treating periodontal diseases.

SYLLABUS FOR CONSERVATIVE DENTISTRY – MDS

Broad outline of theoretical, clinical and practical courses:

Conservative Dentistry

1. History and rationale of conservative procedures.
2. Occlusion.
3. Pathologic and non-pathologic lesions of the hard tissue of the teeth, advanced knowledge of etiology, diagnosis, treatment and prevention.
4. Modern development and advanced knowledge of restorative materials, procedures, cutting tools, drugs and chemicals used in conservative dentistry.
5. All types of restoration used in conservative dentistry.
6. Modern biological and mechanical concept.
7. Dental caries – detailed study of research methods used in studying Dental caries and its prevention.
8. Conservative dentistry in relation to other branches of dentistry including geriatric dentistry.

Endodontics

1. History and rationale of endodontic procedures.
2. Pulp and periapical pathology, advanced knowledge of etiology, diagnosis, treatment and management of pulp involved in teeth.
3. Bacteriological investigations and intracoronary medication.
4. Advanced knowledge of development of root canal instruments their sterilization and use.
5. Advanced knowledge of restorative materials and operative procedures in endodontics.
6. Etiology, treatment of fractured and traumatized teeth.
7. Endodontic procedures for reimplantation of teeth and fundamentals of surgical procedures for reimplantation of teeth.

Adequate number of cases should be treated by all available methods and restorative materials including bleaching of discoloured teeth.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of 3 hours duration.

Clinical and practical examination of not less than 2 days duration involving case studies, diagnosis and treatment of different conditions involving conservative and endodontic procedures, which would demonstrate the clinical and technical ability of the individual

Subject of Conservative Dentistry is concerned with those procedures which, applied to exposed surfaces of teeth in the Dental arches, prevent pathologic process in these areas or which, if disease and deterioration has occurred and the consequence of these conditions have resulted, restore them in so far as possible to normal physiologic condition, esthetic appearance and occlusal relationship, with a view of prevention of Dental health and general health at an optimum level. The study includes endodontics.

SYLLABUS FOR ORAL PATHOLOGY & MICROBIOLOGY – MDS

Broad outline of theoretical, clinical and practical courses:

1. Study of principles of routine and special techniques used for histopathology including principles of histochemistry as related to oral pathology.
2. Advanced and histopathologic study of Dental and oral tissues including embryologic consideration.
3. Study of special pathology or oral regions as well as relation of local pathologic and clinical findings to systemic conditions.
4. Oral microbiology and their relationship to various branches of dentistry.
5. Oral diagnosis of soft tissue changes-study of basic clinical changes and their significance to Dental and oral diseases as related to oral pathology.
6. Forensic dentistry.
7. Recent advances in oral pathology and oral microbiology.
8. Study of principles and techniques of oral cytology and oral biopsy procedures.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of 3 hours duration.

Clinical practical and viva voce examination of not less than 2 days duration involving case studies, clinical and pathological diagnosis of oral diseases.

SYLLABUS FOR ORTHODONTICS – MDS

1. The MDS Programme should consist of seminars on various subjects on Orthodontics like growth and development, anthropology genetics embryology, statistics, nutrition, normal occlusion and variation, malocclusions, etiology of malocclusions, radiology, and cephalometrics, preventive and interceptive orthodontics, corrective orthodontics development of orthodontic appliance and techniques histological changes related to orthodontic treatment and retention.

2. Practical training should consist of preparing orthodontic study models, fabrication of various components of removable and fixed appliances and fabrication of complete appliances.

3. Clinical training should consist of preparing case records, appliances and treatment of different types of malocclusions by different mechanisms.

4. Dissertation

5. Case presentation – the candidate should prepare a complete record of a least five fully treated cases by any techniques and present the same at the practical examination. Case presentation and discussion of the same will form an important part of the practical examination.

The MDS written examination shall consist of four paper, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay.

Each paper shall be of three hours duration.

Clinical, practical and viva-voce examination of not less than 2 days duration involving diagnosis, case analysis and treatment planning of a case and discussion of the same followed by the fabrication of a fixed and a removable and functional appliance.

SYLLABUS FOR PAEDODONTICS – MDS

A broad outline of theoretical, clinical and practical courses :

1. Principles of oral and Dental health in children.
2. Diagnosis-examination, diagnostic aids, diagnosis and treatment planning,
3. Clinical paedodontics-
 - a. Management of developmental anomalies, teething disorders, Dental caries, traumatized teeth, problems of primary and mixed dentition, premature loss of teeth, mouth habits and stomatological conditions.
 - b. Management of the handicapped child.
 - c. Oral surgical procedures in the child patient.
4. Preventive paedodontics-epidemiology, general and specific preventive measures.
5. Recent advances.
6. Dissertation.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay.

Each paper shall be of 3 hours duration.

Clinical, practical and viva-voce examination of at least 2 days duration involving commonly used procedures and appliances used in paedodontics which would demonstrate the clinical and the technical ability of the candidate.

SYLLABUS FOR ORAL MEDICINE & RADIOLOGY – MDS

A broad outline of theoretical, clinical and practical courses :

1. Clinical pathology and microbiology as applied to oral and facial lesions.
2. Congenital and hereditary disorders involving lesions of orofacial region.
3. Systemic diseases with oral manifestations.
4. Haematological, dermatological and neurological conditions with oral manifestations.
5. Salivary glands disorders.
6. Disease of reticulo-endothelial system and autoimmune diseases.
7. T.M.J. Dys-function.
8. Allergy, forensic odontology and other miscellaneous conditions.
9. Neoplasms and premalignant lesions.
10. Therapy in above conditions.

RADIOLOGY

1. Principles of radio physics and radiations.
2. Hazards of radiation.
3. Radiological techniques of head and neck region.
4. Radiological anatomy of head and neck and interpretation of x-rays films.
5. Traces in diagnosis.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences, and one shall be an Essay.

Each paper shall be of 3 hours duration.

Clinical, practical and viva-voce examination of not less than 2 days duration involving case studies, diagnosis and treatment planning for oral diseases, Radiological techniques and radiological diagnosis to demonstrate the candidate's proficiency.

SYLLABUS FOR COMMUNITY DENTISTRY – MDS

A broad outline of theoretical, clinical and practical courses :

1. Diostatistics

Topics including general principles, concepts and analysis to provide the student appropriate knowledge for the study of Public Health and Community Health studies.

2. Epidemiology

Principles, methods and purpose of epidemiology, general methods of investigations, relationship of epidemiologic triad in diseases, processes like caries periodontal diseases, malocclusion, Dental health problems of special population groups.

3. Environmental Health (Elementary study only)

The topics include component of environment and their effect on health, control of health hazards, water and food supplies, disposal of wastes, pollution, radiations hazards and occupational hazards.

4. Public Health Education

Importance, public health education. Methods and selection of media for propagation of health programme at various levels.

5. Public Health Nutrition

Importance of nutrition of health, common disorders, related to nutrition deficiencies in individuals and in community level. Socio-economic influence on nutrition. Nutrition and inheritance.

6. Behavioural Sciences

Selected topics in sociology, psychology, anthropology relevant to areas in public health practice-topics include social science theories, concepts, methods of research and practical application in Public Health Programmes.

7. Public Health Practice & Administration Family Planning

Concept and scope of public health, historical background of preventive and public health organisation and administration at various levels. National and International public health programmes, health, manpower, establishment of priorities for solving health needs of community. Methods, consideration, need and practice of family planning programmes in India, Knowledge, attitudes and administration at various levels.

8. Environmental Health

Fieldtrips to water and sewage treatment plants, dairies and food processing plants, basic environmental health and sanitary science, fluoridation and radiation hygiene.

9. Preventive Dentistry

Concepts of prevention levels and application of various preventive measures at individual and mass level evaluation of preventive programmes in dentistry-Dental auxiliaries.

10. Dental Public Health & Dental Epidemiology

Includes all phases of Dental public health and Epidemiology of Dental and oral diseases, design of clinical trials, field surveys and laboratory work.

Biostatistics as applied to public health problems, collecting, tabulations, elementary analysis of data including vital statistics, treatment rates, distribution of varieties, sampling variation.

The MDS written examination shall consist of four papers, out of which two shall be pertaining to the subject, one in Applied Basic Sciences and one shall be an Essay.

Each paper shall be of 3 hours duration.

- i. Practical
- ii. Viva Voce

Qualification for Examiner or Inspector for Post graduate Degree Programme:

1. He should possess qualification and experience not less than that prescribed for Post-graduate Degree Programme
2. No person who is not an active Post-graduate teacher in the subject, can be appointed as Examiner. However, in case of retired personnel, a teacher who satisfies the above conditions, could be appointed upto one year after retirement.
3. Not less than 50% of the External Examiners shall be from outside the State.
4. Reciprocal arrangement of Examiners should be discouraged in that, the Internal Examiner in a subject should not accept External examinership for a College from which External Examiner is appointed in his subject.
5. No person shall be External Examiner of the same University for more than 3 consecutive years. However, if there is a break of one year the person can be appointed.

Approved by the Government of India vide their letter No.V.12017/5/77-PMS dated 25.1.78
