

**THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY CHENNAI
600 032**



**REGULATIONS AND SYLLABUS 2007
B.D.S. UNDER-GRADUATE (DENTAL) COURSE**

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY
CHENNAI-600 032
REGULATIONS OF THE UNIVERSITY

In exercise of the powers conferred by section 44 of The Tamil Nadu Dr. M.G.R. Medical University, Chennai, Act 1987 (Tamil Nadu 37 of 1987), the Standing Academic Board of The Tamil Nadu Dr. M.G.R. Medical University, Chennai hereby makes the following regulations.

I.SHORT TITLE AND COMMENCEMENT

These regulations shall be called THE REGULATIONS FOR THE BACHELOR OF DENTAL SURGERY COURSE 2006 OF THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY, CHENNAI". They shall come into force from the academic year 2007-2008 sessions.

The Regulations and the Syllabus are as prescribed in these regulations.

General : Universities awarding the degrees in Bachelor of Dental Surgery (BDS) and Master of Dental Surgery (MDS) shall establish independent Dental Faculty.

II.ADMISSION, SELECTION AND MIGRATION

Admission to the Dental Course-Eligibility Criteria :

No. Candidate shall be allowed to be admitted to the Dental Curriculum of first Bachelor of Dental Surgery (BDS) Course until :

He/she shall complete the age of 17 years on the before 31st December, of the year of admission to the BDS course;

He/she has passed qualifying examination as under:-

The higher secondary examination or the Indian School Certificate Examination which is equivalent to 10+2 Higher Secondary Examination after a period of 12 years study, the last two years of study comprising of Physics, Chemistry, Biology and Mathematics or any

Other elective subjects with English at a level not less than the core course for English as prescribed by the National Council for Educational Research and Training after the introduction of the 10+2+3 years educational structure as recommended by the National Committee on education;

Note: Where the course content is not as prescribed for 10+2 education structure of the National Committee, the candidates will have to undergo a period of one year pre-professional training before admission to the dental colleges;

Or

b. The intermediate examination in science of an Indian University/Board or other recognised examining body with Physics, Chemistry and Biology which shall include a practical test in these subjects and also English as a compulsory subject;

Or

The pre-professional/pre-medical examination with Physics, Chemistry and Biology, after passing either the higher secondary school examination, or the pre-university or an equivalent examination. The pre-professional/pre-medical examination shall include a practical test in Physics, Chemistry and Biology/ and also English as a compulsory subject;

Or

The first year of the three years degree course of a recognized university, with Physics, Chemistry and Biology including a practical test in three subjects provided the examination is a "University Examination" and candidate has passed 10+2 with English at a level not less than a core course;

Or

B.Sc examination of an Indian University, provided that he/she has passed the B.Sc examination with not less than two of the following subjects Physics, Chemistry, Biology (Botany, Zoology) and further that he/she has passed the earlier qualifying examination with the following subjects-Physics, Chemistry, Biology and English.

Or

Any other examination which, in scope and standard is found to be equivalent to the intermediate science examination of an Indian University/Board, taking Physics, Chemistry and Biology including practical test in each of these subjects and English.

Note:

Marks obtained in Mathematics are not be considered for admission to BDS Course.
After the 10+2 course is introduced, the integrated courses should be abolished.

Selection of Students: The selection of students to dental college shall be based solely on merit of the candidate and for-determination of the merit, the following criteria be adopted uniformly throughout the country:

In states, having only one Dental College and one university board/examining body conducting the qualifying examination, the marks obtained at such qualifying examination may be taken into consideration;

In states, having more than one university/board/examining body conducting the qualifying examination (or where there is more than one dental college under the administrative control of one authority) a competitive entrance examination should be held so as to achieve a uniform evaluation as there may be variation of standards at qualifying examinations conducted by different agencies;

Where there are more than one college in a state and only one university/board conducting the qualifying examination, then a joint selection board be constituted for all the colleges;

A competitive entrance examination is absolutely necessary in the cases of institutions of All India character;

Procedure for selection to BDS course shall be as follows:-

In case of admission on the basis of qualifying examination under clause (1) based on merit, candidate for admission to BDS course must have passed in the subjects of Physics, Chemistry, Biology & English individually and must have obtained a minimum of 50% marks taken together in Physics, Chemistry, and Biology at the qualifying examination. In respect of candidates belonging to Scheduled Castes, Scheduled Tribes or Other Backward Classes, the marks obtained in Physics, Chemistry and Biology taken together in qualifying examination be 40% instead of 50% as above and must have qualifying marks in English.

In case of admission on the basis of competitive entrance examination under clause (2) to (4) of this regulation, a candidate must have passed in the subjects of Physics, Chemistry, Biology and English individually and

Must have obtained a minimum of 50% marks taken together in Physics, Chemistry and Biology at the qualifying examination and in addition must have come in the merit list prepared as a result of such competitive entrance examination by securing not less than 50% marks in Physics, Chemistry and Biology taken together in the competitive examination. In respect of candidates belonging to Scheduled Castes, Scheduled Tribes or any other categories notified by the Government the marks obtained in Physics, Chemistry and Biology taken together in qualifying examination and competitive entrance examination be 40% instead of 50% as stated above:

Provided that a candidate who has appeared in the qualifying examination the result of which has not been declared, he may be provisionally permitted to take up the competitive entrance examination and in case of selection for admission to the BDS course, he shall not be admitted to that course until he fulfils the eligibility criteria as per above regulations.

All the admissions to the college must be done according to the seat matrix given by the government of Tamil Nadu. The University shall not register those candidates who have not been admitted according to the seat matrix prescribed by the government.

The candidates who have passed the Higher Secondary examination (plus two) from the boards other than the state board of Higher Secondary examinations of the Government of Tamilnadu have to submit the eligibility issued by the Tamilnadu Dr M.G.R medical university before joining the institution. The same way be intimated to the selection committee for inclusion in the prospectus.

NON RESIDENT INDIAN/FOREIGN NATIONALS

15% of total seats in self financing colleges can be filled according to the guidelines of government of Tamilnadu G.O. Ms.No.346 ,dated 19.10.2009.

III. Duration of the Course:

The undergraduate dental training programme leading to BDS degree shall be of 5 years with 270 teaching days in each academic year. During this period, the student shall be required to have engaged in full time study at a dental college recognized or approved by the Dental Council of India.

IV. Migration:

Migration from one dental college to other is not a right of a student. However, migration of students from one dental college to another dental college in India may be considered by the Dental Council of India. Only in exceptional cases on extreme compassionate ground*, provided following criteria are fulfilled. Routine migrations on other ground shall not be allowed.

Both the colleges, i.e. one at which the student is studying at present and one to which migration is sought, are recognised by the Dental Council of India.

The applicant candidate should have passed first professional BDS examination.

The applicant candidate submits his application for migration, complete in all respects, to all authorities concerned within a period of one month of passing (declaration of results) the first professional Bachelor of Dental Surgery (BDS) examination.

The applicant candidate must submit an affidavit stating that he/she will pursue 240 days of prescribed study before appearing at IInd professional Bachelor of Dental Surgery (BDS) examination at the transferee dental college, which should be duly certified by the Registrar of the concerned University in which he/she is seeking transfer. The transfer will be applicable only after receipt of the affidavit.

Note 1:

Migration is permitted only in the beginning of IInd year BDS Courses in recognized Institution.

All applications for migration shall be referred to Dental Council of India by college authorities. No Institution/University shall allow migrations directly without the prior approval of the Council.

Council reserved the right, not to entertain any application which is not under the prescribed compassionate grounds and also to take independent decisions where applicant has been allowed to migrate without referring the same to the Council.

Note 2: *Compassionate ground criteria:

Death of supporting guardian.

Disturbed conditions as declared by Government in the Dental College area.

V. Attendance requirement, Progress and Conduct

(i) 90% in theory and 90% in practical/clinical in each year.

(ii) In case of a subject in which there is no examination at the end of the academic year/semester, the percentage of attendance shall not be less than 70%. However, at the time of appearing for the professional examination in the subject, the aggregate percentage of attendance in the subject should satisfy condition (i) above.

VI. Subjects of Study:

First Year

General Human Anatomy including Embryology and Histology
General Human Physiology and Biochemistry, Nutrition and Dietics
Dental Anatomy, Embryology and Oral Histology
Dental Materials
Pre-clinical Prosthodontics and Crown & Bridge

Second Year

General Pathology and Microbiology
General and Dental Pharmacology and Therapeutics
Dental Materials
Pre Clinical Conservative Dentistry
Pre clinical Prosthodontics and Crown & Bridge
Oral Pathology & Oral Microbiology

Third Year

General Medicine
General Surgery
Oral Pathology and Oral Microbiology
Conservative Dentistry and Endodontics
Oral & Maxillofacial Surgery
Oral Medicine and radiology
Orthodontics & Dentofacial Orthopaedics
Paediatric & Preventive Dentistry
Periodontology
Prosthodontics and Crown & Bridge

Fourth Year

Orthodontics & dentofacial orthopaedics
Oral Medicine & Radiology
Paediatric & Preventive Dentistry
Periodontology
Oral & Maxillofacial Surgery
Prosthodontics and Crown & Bridge
Conservative Dentistry and Endodontics
Public Health Dentistry

Fifth Year

Oral & maxillofacial Surgery
Prosthodontics and Crown & Bridge
Conservative Dentistry and Endodontics
Public Health Dentistry

EXAMINATIONS

SCOPE: These regulations shall be applicable for the B.D.S. degree examinations conducted by various universities in the country.

PREFACE:

Evaluation is a continuous process, which is based upon criteria developed by the concerned authorities with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.

Evaluation is achieved by two processes

Formative or internal assessment

Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

METHODS OF EVALUATION:

Evaluation may be achieved by the following tested methods:

Written test

Practicals

Clinical examination

Viva voce

INTERNAL ASSESSMENT EXAMINATION

a) There shall be a continuous assessment of at least five theory examinations & three practical examinations for calculating internal assessment.

b) The internal assessment marks along with attendance particulars shall be sent to the university every quarter

c) A candidate who has failed in the internal assessment will not be eligible to appear for the main examination.

d) These rules shall come into effect for those candidates joining the course in August 2010 and appearing for the university examinations in the August 2011.

SCHEME OF EXAMINATION

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first academic year, 2nd B.D.S. examination at the end of second year, 3rd B.D.S. examination at the end of third, 4th BDS at the end of 4th and final B.D.S at the end of 5th year. 270 days minimum teaching in each academic year is mandatory. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules laid down by the University. Universities shall organize admission timings and admission process in such a way that teaching starts from 1st day of August in each academic year.

I B.D.S. Examination:

1. General anatomy including embryology and histology

2. General human physiology and biochemistry

3. Dental Anatomy, Embryology and Oral Histology

Any student who does not clear the first BDS University Examination in all subjects within 3 years from the date of admission, shall be discharged from the Course.

Any candidate who fails in one subject in an Examination is permitted to go to the next higher class and appear for the subject and complete it successfully before he is permitted to appear for the next higher examination.

II B.D.S. Examination :

A candidate who has not successfully completed the 1st B.D.S. examination cannot appear in the IInd year Examination.

General pathology and Microbiology

General and dental pharmacology and therapeutics

Dental Materials

Pre Clinical Conservative – Only Practical and Viva Voce

Pre Clinical Prosthetics – Only Practical and Viva Voce

III B.D.S. Examination:

A candidate who has successfully completed the 2nd B.D.S. examination can appear IIIrd B.D.S. Examination.

General Medicine

General Surgery

Oral Pathology and Oral Microbiology

IV B.D.S. Examination:

Oral Medicine and radiology

Paediatric & Preventive Dentistry

Orthodontics & dentofacial orthopaedics

Periodontology

V BDS Examination:

Prosthodontics and Crown & Bridge

Conservative Dentistry and Endodontics

Oral and Maxillofacial Surgery

Public Health Dentistry

WRITTEN EXAMINATION:

The written examination in each subject shall consist of one paper of three hours duration and shall have maximum marks of 100.

In the subjects of Physiology & Biochemistry and Pathology & Microbiology each paper will be divided into two parts, A and B of equal marks.

The question paper should contain different types of questions like essay, short answer and objective type. The nature of question set, should be aimed to evaluate students of different standards ranging from average to excellent.

The question should cover as broad an area of the content of the course. The essay questions should be properly structured and the marks specifically allotted.

The University may set up a question bank

PRACTICAL AND CLINICAL EXAMINATION:

Objective structured Clinical Evaluation: The present system of conducting practical and clinical examination at several universities provide chance for unrealistic proportions of luck only a particular clinical procedure or experiment is usually given for the examination. The clinical and practical examination should provide a number of chances for the candidate to express one's skills. A number of examination stations with specific instructions to be provided. This can include clinical procedures, laboratory experiments, spotters etc. Evaluation must be made objective and structured. The method of objective structured clinical examinations should be followed. This will avoid examiner bias because both the examiner and the examinee are given specific instructions on what is to be observed at each station.

Record / Log Books: The candidate should be given credit for his records based on the scores obtained in the record. The marks obtained for the record in the first appearance can be carried over to the subsequent appearances if necessary.

Scheme of clinical and partial examinations: The specific scheme of clinical and practical examinations, the types of clinical procedures / experiments to be performed and marks allotted for each are to be discussed and finalized by the Chairman and other examiners and it is to be published prior to the conduct of the examinations along with the publication of the time table for the practical examinations. This

scheme should be brought to the notice of the external examiner as and when the examiner reports. The practical and clinical examinations should be evaluated by two examiners of which one shall be an external examiner appointed from other universities preferably outside the State. Each candidate should be evaluated by each examiner independently and marks computed at the end the examination.

Viva Voce : Viva voce is an excellent mode of assessment because it permits a fairly broad coverage and it can assess the problem solving capacity of the student. An assessment conduct the viva voce independently by each examiner. In order to avoid vagueness and to maintain uniformity standard and coverage, questions can be pre-formulated before administering them to each student. Twenty marks are exclusively allotted for viva voce and that can be divided equally amongst the examiners., i.e., 10 marks per examiner.

SCHEME OF EXAMINATION

Theory	100(2 X 20 structured essay + 10 X 6 Short notes)
Practical	100
Oral/viva	100
Internal assessment	100

50% pass in each component separately is required for a pass.

Practical and Viva Voce Only in University Examination:

Pre-clinical Prosthodontics

Pre-clinical Conservative Dentistry

50% pass in each component separately is required for a pass

Successful candidates who obtain 65% of the total marks or more shall be declared to have passed the examination in first Class. Other successful candidates will be placed in second class. A candidate who obtains 75% and above is eligible for Distinction. Only those candidates who pass the whole examination in the first attempt will be eligible for distinction or class.

Re-totaling: The University on application and remittance of a stipulated fee to be prescribed by the university, shall permit a recounting or opportunity to recount the marks received fro various questions in an answer paper / papers for theory of all subjects of which the candidate has appeared in the university examination. Any error in addition of the marks awarded if identified should be suitably rectified.

Re-evaluation: As double evaluation provision exists, this provision or re- evaluation will not be applicable.

QUALIFICATION AND EXPERIENCE TO BE ELIGIBLE FOR EXAMINERSHIP FOR BDS EXAMINATION

M.D.S. Degree from a recognized Institution

4 years teaching experience in the subject in a dental college after MDS

Should be holding the post of a Reader or above in a Dental Institution approved / recognized by the Dental Council of India for B.D.S.

Note :

In case of Public Health Dentistry, as there is acute shortage of teachers one examiner from public Health Dentistry and the second one could be from Periodontics. To be reviewed after three years.

In case of Physiology and Biochemistry if internal examiner is from Phisiology, External examiner should be from Biochemistry or wise versa

In case of Pathology and Microbiology if internal is examiner is from Pathology, External examiner should be from Microbiology or wise versa

In case Dental materials, if internal is from Prosthodontics, external should be from Conservative Dentistry and wise versa

50% of examiners appointed shall be external from Dental Institutions approved / recognized by the Dental Council of India for B.D.S. Course, from other University, preferably from outside the state. Reciprocal arrangement of Examiners should be discouraged, in that, the Internal Examiner in a subject should not accept external examinership for College from which External Examiner is appointed in his subject for the corresponding period.

No person shall be an external Examiner to the same University for more than 3 consecutive years. However, if there is a break of one year the person can be re-appointed.

MINIMUM WORKING HOURS FOR EACH SUBJECT OF STUDY
(B.D.S COURSE)

Note :

There should be a minimum of 270 teaching days every year consisting of 8 working hours including one hour of lunch break.

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
General Human Anatomy Including Embryology, Osteology and Histology.	100	175		275
General Human Physiology	120	60		180
Biochemistry	70	60		130
Dental Materials	80	240		320
Dental Anatomy Embryology, and Oral Histology	105	250		355
Dental Pharmacology & Therapeutics	70	20		90
General Pathology	55	55		110
Microbiology	65	50		115
General Medicine	60		9	150
General Surgery	60		90	150
Oral Pathology & Microbiology	145	130		275
Oral Medicine & Radiology	65		200	265
Paediatric & Preventive Detistry	65		200	265
Orthodontics & dental orthopaedics	50		200	250
Periodontology	80		200	280
Oral & Maxillofacial Surgery	70		360	430
Conservative Dentistry & Endodontics	135	200	460	795
Prosthodontics & Crown & Bridge	135	300	460	895
Public Health Dentistry	60		290	350
Total	1590	1540	2550	5680

MINIMUM WORKING HOURS FOR EACH SUBJECT OF STUDY
(B.D.S COURSE)

I B.D.S

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
General Human Anatomy Including Embryology, Osteology and Histology	100	175		275
General Human Physiology	120	60		180
Biochemistry.	70	60		130
Dental Anatomy Embryology, and Oral Histology	105	250		355
Dental Materials	20	40		60
Pre clinical Prosthodontics & Crown & Bridge	-	100		100
Total	415	685		1100

II B.D.S

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
General & Dental Pharmacology and therapeutics	70	20		90
General Pathology	55	55		110
Microbiolog	65	50		115
Dental Materials	60	200		260
Oral Pathology and Oral Microbiology	25	50		75
Pre Clinical Prosthodontics & Crown Bridge	25	200		225
Pre Clinical Conservative Dentistry	25	200		225
Total	325	775		1100

III B.D.S

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
General Medicine	60		90	150
General Surgery	60		90	150
Oral Pathology and Oral Microbiology	120		70	200
Oral Medicine and Radiology	20		70	90
Paediatric and Preventive Dentistry	20		70	90
Orthodontics & Dentofacial Orthopaedics	20		70	90
Periodontology	30		70	100
Oral & Maxillofacial Surgery	20		70	90
Conservative Dentistry & Endodontics.	30		70	100
Prosthodontics and Crown & Bridge	30		70	100
Total	410		750	1160

IV B.D.S

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
Oral Medicine and Radiology	45		130	175
Paediatric and Preventive Dentistry	45		130	175
Orthodontics & Dentofacial Orthopedics	30		130	160
Periodontology	50		130	180
Oral & Maxillofacial Surgery.	20		90	110
Conservatics Dentistry & Endodontics.	30		90	120
Prostodontics and Crown & Bridge	30		90	120
Public Health Dentistry	30		90	120
Total	280		880	1160

V B.D.S

Subject	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
Oral & Mexillofacial Surgery	30		200	230
Conservative Dentistry & Endodontics	50		300	350
Prostodontics and Crown & Bridge	50		300	350
Public Health Dentistry	30		200	230
Total	160		1000	1160

Note:

Behavioral Sciences Classes shall commence in 1st Year.

Forensic deontology shall be covered in the department of Oral pathology and Oral Medicine during 3rd Year.

Esthetic Dentistry shall be covered in the Department of Conservative Dentistry and Prosthodontics during 4th & 5th Year.

Oral Implantology shall be covered in the Department of Maxillofacial Surgery, Prosthodontics & Crown & Bridge and Periodontology during 4th & 5th Years.

Ethics and dental jurisprudence shall be covered in Public Health Dentistry in 4th and 5th years.

Electives / Research work should be encouraged during the 5th Year lasting for a period of atleast one month to be spent in a different dental institution in India / overseas.

All the institutions shall compulsorily make arrangements for Comprehensive oral health care training for atleast 3 months during 5th Year. The department of Public Health Dentistry may be utilised in case, the institution does not have separate department for this purpose. Qualified faculty members from the departments of Prosthodontics, Conservative and periodontics should guide the students along with faculty of Public Health Dentistry Department.

The minimum working hours indicated each year of study does not include one month mid year vacation and one month of university examination.

DISCHARGE FROM COURSE

The candidates who has been admitted under regulations III and five year course has to clear the I BDS examination in all subjects within 3 years failing which the candidate will be discharged from the course. A candidate shall be discharged from the course if he is unable to complete the course within 10 years from the date of original admission in the first year.

BREAK OF STUDY AND READMISSION

No candidate shall be allowed more than two breaks. No candidate shall be readmitted if on readmission he will not be able to complete the course within 10 years from the date of original admission in the first year.