

## **PREAMBLE:**

The Mathrushri Ramabai Ambedkar Dental College and Hospital offers the complete and advanced education, innovation opportunities powered by active learning and state of the art facilities with diverse group of faculty members and staff.

## **LEARNING OUTCOMES:**

Learning outcome refers to the ability of the student towards rendering the services to the society. There are two types of Learning or program outcome. They are generic and program specific. These are provided by university - Rajiv Gandhi University of Health Sciences through the syllabus.

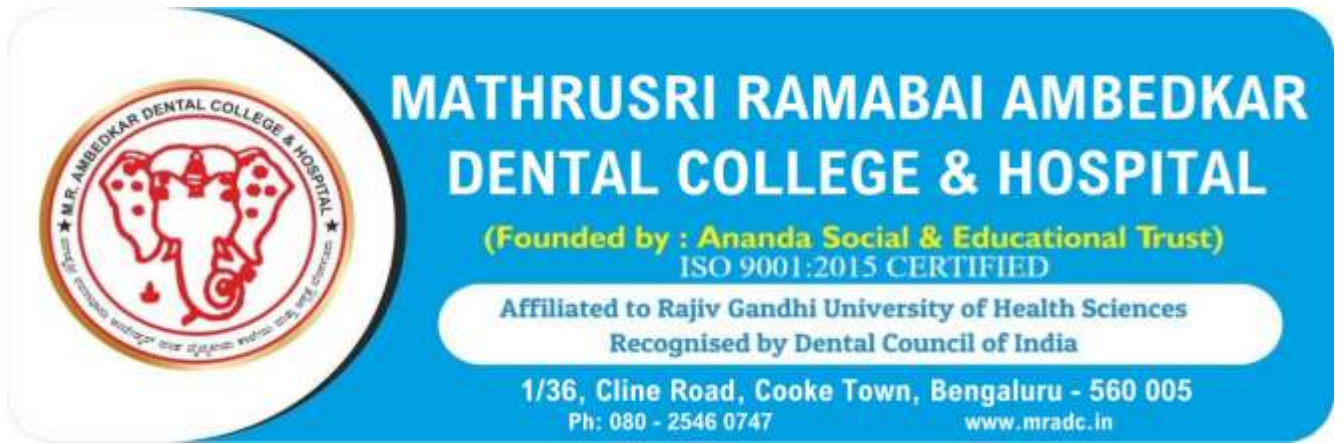
## **Drafting Process of PO's/PSO's/CO's/GA's:**

The academic excellence achieved by the students is measured based on the outcomes stated by the institutions for its programmes and courses. At the beginning of the session all faculty members write the Course Outcomes (CO's) and submit to IQAC after the refinement IQAC develops the Programme Outcomes (PO's) and Graduate Attributes (GA's) which are aligned with the Vision, Missions and Goals of the Institution and curriculum prescribed by RGUHS and DCI regulations.

POs are statements about the knowledge, skills and attitudes (attributes) the dental graduate of a formal dental surgery program should have. POs deal with the general aspect of dentistry for a particular program, and the competencies and expertise for a BDS and MDS student should possess after completion of the program. Course Outcomes are statements clearly describing the meaningful, observable and measurable knowledge, skills and/or attitudes students will learn after the completion of the course. These outcomes are drafted after brain storming sessions with all heads



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and faculty members. At first, these outcomes are presented by head of the departments in IQAC and Curriculum Committee after its approval they are displayed on college website. Session Plans, Lesson Plans and other academic activities are planned in accordance with these stated CO's and PO's for their successful achievement.

## **LEARNING OUTCOMES COVER THREE DOMAINS**

1. Knowledge and understanding (Cognitive)
2. Skills (Psychomotor)
3. Attitude (Affective)

### **Domain – Cognitive - Knowledge and Understanding**

- Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and should be able to evaluate and analyze scientifically various established facts and data.
- Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues in health and disease and their relationship and effect on general-state of health and also the bearing on physical social well-being of the patient.
- Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions diseases of the teeth, mouth and jaws and preventive, diagnostic and therapeutic aspects of dentistry.
- Adequate clinical experience required for general dental practice.



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- Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence the natural and social environment on the state of health so far as it affects dentistry.

## Domain –Psychomotor - Skills

- Acquire skill to prevent and manage complications if encountered while carrying out various dental surgical and procedures.
- Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
- Promote oral health and help to prevent oral diseases wherever possible.
- Competent in control of pain and anxiety during dental treatment.

## Domain –Affective - Attitude

- Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
- Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- Seek to improve awareness and provide possible solutions for oral health problems and needs throughout community.
- Willingness to participate in the continuing education programmes to update knowledge and professional skills time to time.
- To help and to participate in the implementation of national health programmes.



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## POST - GRADUATE OUTCOME

### Domain – Cognitive - Knowledge and Understanding:

- Demonstrate understanding of basic sciences relevant to specialty.
- Describe aetiology, pathophysiology, principles of diagnosis and management of common problems within the specialty in adults and children.
- Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment.
- Recognize conditions that may be outside the area of specialty/competence and to refer them to an appropriate specialist.
- Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and should be able to evaluate and analyse scientifically various established facts and data.

### Domain –Psychomotor - Skills

- 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.
- Acquire adequate skills and competence in performing various procedure required in the specialty.
- Carry out research and audits

### Domain –Affective - Attitude

- Adopt ethical principles in all aspects of practice.
- Professional honesty and integrity are to be fostered.



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- Patient care is to be delivered irrespective of social status, caste, creed or religion of the patient.
- Develop communication skills, in particular and skill to explain various options available in management and to obtain a true informed consent from the patient.
- Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

## LEARNING OUTCOMES / PROGRAM OUTCOME (GENERIC) FOR BDS:

- Displaying of professionalism with patients and staffs.
- Develop communication and interpersonal skills to allow effective delivery of dental treatment to the patients.
- Knowledge acquisition, information handling & critical thinking
- Clinical information gathering and maintenance of records.

## PROGRAM SPECIFIC OUTCOME FOR BDS

- Diagnosis and treatment planning of various oro-facial diseases and conditions
- Establishment and maintenance of oral health by providing a comprehensive approach to oral care
- through evidence-based treatment approaches
- Ability to apply the principles of health promotion and disease prevention
- Participation in community-based preventive measures

## LEARNING OUTCOMES FOR MDS PROGRAM

- Exercise empathy and a caring attitude and maintain high ethical standards.



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- Continue to evince keen interest in professional education in the specialty and allied specialties
- whether in teaching or practice;
- Share the knowledge and skills with any learner, junior or a colleague

## PROGRAM SPECIFIC OUTCOME FOR MDS


- Develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach in treatment.
- Render a highly specialized and competent service in teaching, research and specialty practice.



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## OBJECTIVES OF THE ASSESSMENT OF LEARNING OUTCOMES AND GRADUATE ATTRIBUTES:

- To ensure that the entire department faculty is actively involved in the assessment and grading of each student.
- To promote transparency and keep students informed about their assessment on a term basis.
- The overall evaluation of each student will consider multiple components.
- Examination is an essential part of the academic curriculum, and absence from exams will not be tolerated and may result in penalties.
- The syllabus for each examination will be communicated to students well in advance.
- The distribution of syllabus for internal assessments is usually as follows:

SI No.	Activity	Portion Covered (%)
1	1 <sup>st</sup> Internal Examination	30-35
2	2 <sup>nd</sup> Internal Examination	60-670
3	3 <sup>rd</sup> Internal Examination	100

## Methods of Assessment of BDS Outcomes:


- Theoretical Assessments:**
  - Regular written exams to assess understanding of theoretical concepts.
- Progressive Evaluation:**
  - Continuous assessment through clinical postings and hands-on training in each department.
- Clinical Examinations:**
  - Regular evaluation of practical skills through clinical procedures and presentations.
- Seminars and Presentations:**
  - Participation in case discussions, presentations, and seminars.
- End-of-Posting Viva and Tutorials:**
  - Oral examinations and discussions at the end of each clinical posting.
- Internal Assessment Criteria:**



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- 30-40% of the total marks for each subject will be based on internal assessments, including written exams, clinical performance, and participation in academic activities.

**7. Graduate Attributes Assessment:**

- Assessments will also include evaluation of graduate attributes such as problem-solving, critical thinking, and professionalism in clinical settings.

By following these methods, the institution ensures a comprehensive assessment of students' knowledge, clinical skills, and professional behavior throughout the BDS program.

**Criteria for the Internal Assessment:**

Internal assessment of each student will be based upon the following factors:

- Attendance
- Discipline
- Terminal examination marks
- End posting Viva/Tutorials
- Clinical Performance
- Record Book
- Projects completed
- Seminars presented

**B. University Examinations:**

- Final examination will be conducted by the state university, **RGUHS**, at the end of the academic year.
- Students will be appearing in the examination at the center allotted by the university.
- Evaluation of the answer sheets of these examinations will be done by the university.
- If a student is not satisfied with the result, he/she can apply through an application for a copy of the mark sheets.

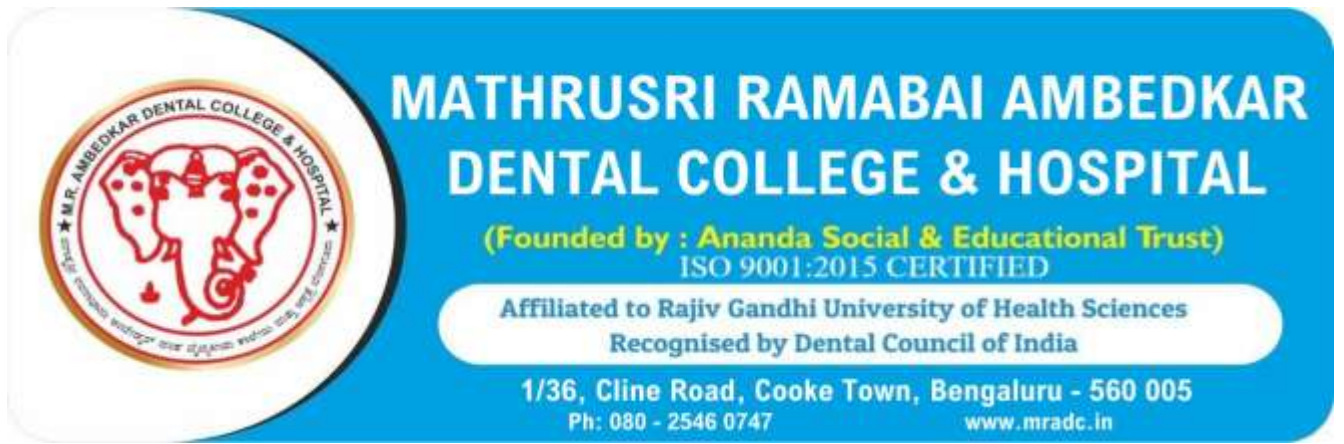


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## Examination Pattern:

The examination pattern for all the examinations will remain the same as directed by the university. All the internal and university examinations will comprise:

1. Theory examination
2. Practical examination

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## Criteria for Appearing in the Examinations:

### A. Theory examination:

- Students are not allowed in any examination if their attendance is less than 75% in all subjects.
- Students must report to the examination hall 30 minutes before the commencement of the examination.
- Later on, students will not be allowed to give the exam and will be considered absent.

### B. Practical examination:


- Students are not allowed in any examination if their attendance is less than 85% in all practical classes/clinical postings.
- Students should be in proper uniform and must properly follow sterilization protocols.
- All equipment must be properly cleaned and sterilized.
- The logbook must be complete and duly signed by the faculty member and Head of the department.



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## Marks distribution:

University Examinations - Total marks for each subject is 200.

### A. Theory (100 marks):


- University written exam: 70 marks
- Viva Voce: 20 marks
- Internal Assessment: 10 marks

### B. Practical (100 marks):

- University Exam: 90 marks
- Internal Assessment: 10 marks



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**Methods of assessment of MDS outcomes:**

**A. Evaluation of:**

1. Academic activities attended
2. Seminars presented
3. Journal clubs presented
4. Case presentations
5. Clinical work done
6. Teaching skills
7. Dissertation work
8. Logbook for each year

**B. Mock examinations**

**C. Basic paper university theory examination at the end of 1st MDS**

**D. University theory examinations at the end of the 3rd year**

**E. Clinical examinations**

**F. Pedagogy**

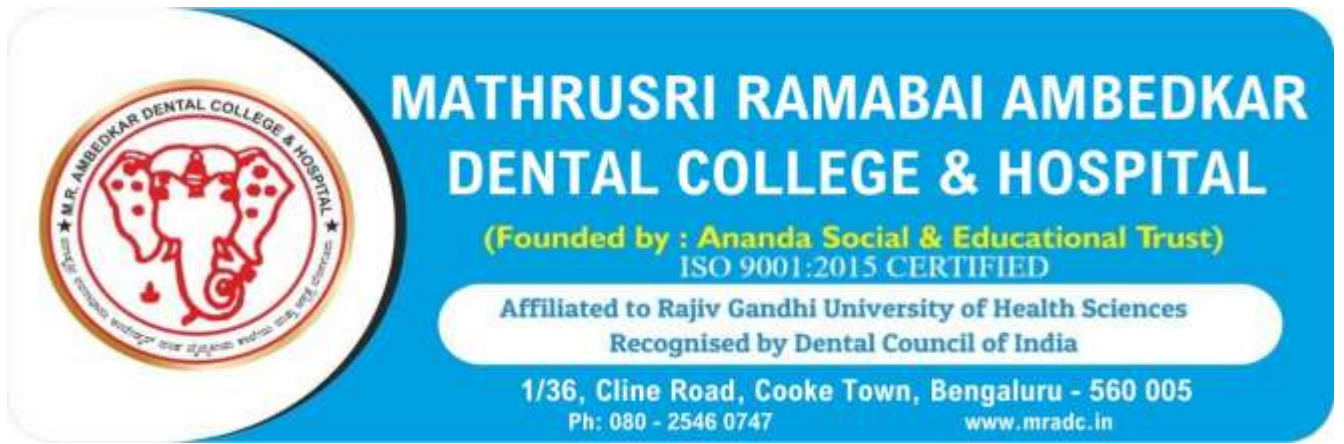
**G. Grand viva**



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## Eligibility Criteria:

To qualify for the final examination, a candidate must fulfill the following requirements:

### 1. **Attendance:**

Each candidate must secure at least **80% attendance** during each academic year.

### 2. **Progress and Conduct:**

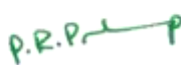
Candidates are expected to actively participate in various academic activities organized by the department, such as:

- Seminars
- Journal review meetings
- Symposia
- Conferences
- Case presentations
- Clinical sessions
- Didactic lectures

### 3. **Work Diary and Log Book:**

Every candidate is required to maintain a **work diary** and **log book** to document participation in training programs conducted by the department. These records must be verified and certified by the Head of the Department. The certification of satisfactory progress will be based on the contents of the work diary and log book.



  
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## Log Book Format:

Log Book

Table 1

Academic activities attended

Name:

Admission Year:

College:

Date	Type of activity (Specify Seminar, Journal club, Presentation, Under-graduate teaching)	Particulars

Table 2

Academic presentations made by the PG

Name:

Admission Year:

College:

Date	Topic	Type of activity (Specify Seminar, Journal club, Presentation, Under-graduate teaching)



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Table 3

Diagnostic and operative procedures performed

Name:

Admission Year:

College:

Date	Name	Op No.	procedure	

## Dental Council of India (DCI) checklists for continuous evaluation of Postgraduate students:

Continuous Internal Evaluation (CIE) of post-graduate students is conducted by the staff of the departments based on the following checklists.

### Schedule - I

#### Model checklist for evaluation of Journal Review Presentations

Name of the trainee:

Date:

Name of the faculty/observer:

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Article chosen was					
2	Extent of understanding of scope and objectives of the paper by the candidate.					
3	Whether cross-references have been consulted.					
4	Whether other relevant publications consulted.					
5	Ability to respond to questions on the paper/subject.					
6	Audio-visual aids used.					
7	Ability to defend the paper.					
8	Clarity of presentation					
9	Any other observation.					
Total score						

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## Schedule - II

### Model checklist for evaluation of Seminar Presentations

Name of the trainee:

Date:

Name of the faculty/observer:

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness and preparation					
2.	Clarity of presentation					
3.	Understanding of subject					
4.	Whether other relevant publications consulted					
5.	Whether cross-references have been consulted					
6.	Ability to answer the questions					
7.	Time scheduling					
8.	Appropriate use of audio-visual aids					
9.	Overall performance					
10.	Any other observation.					
	<b>Total score</b>					

## Schedule - III

### a) Model checklist for evaluation of clinical work in outpatient department (to be completed once a month by respective unit heads including posting in other department)

Name of the trainee:

Date:

Name of the unit head:

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Regularity of attendance					
2.	Punctuality					
3.	Interaction with colleagues and support staff					
4.	Maintenance of case records					
5.	Presentation of cases					
6.	Investigations work up					
7.	Chair-side manners					
8.	Rapport with patients					
9.	Overall quality of clinical work					
	<b>Total score</b>					



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## b) Evaluation of clinical case presentation

Name of the trainee:

Date:

Name of the faculty/observer:

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of history					
2.	Whether all relevant points elicited					
3.	Clarity of presentation					
4.	Logical order					
5.	Mentioned all positive and negative points					
6.	Accuracy of general physical examination					
7.	Diagnosis: whether it follows logically from history and findings					
8.	Investigations required Complete list Relevant order Interpretation of investigations					
9.	Ability to react to questioning: whether it follows logically from history and findings					
10.	Ability to defend diagnosis					
11.	Ability to justify differential diagnosis					
12.	Others					
	<b>Grand total</b>					

## Schedule - IV

### Model checklist for evaluation of teaching skill Name of the trainee:

Date:

Name of the faculty/observer:

Sl. No.	Items for observation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Communication of the purpose of the talk					
2	Evokes audience interest in the subject					
3	The introduction					



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4	The sequence of ideas					
5	The use of practical examples and/or illustrations					
6	Speaking style (enjoyable, monotonous etc.)					
7	Attempts audience participation					
8	Summary of the main points at the end					
9	Asks questions					
10	Answers questions asked by the audience					
11	Rapport of speaker with the audience					
12	Effectiveness of the talk					
13	Uses audio-visual aids appropriately					

### Schedule - V

#### Model checklist for dissertation presentation

Name of the trainee:

Date:

Name of the faculty/observer:

Sl. No.	Points to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Interest shown in selecting topic					
2	Appropriate review					
3	Discussion with guide and other faculty					
4	Quality of protocol					
5	Preparation of proforma					
	Total score					

#### Continuous evaluation of dissertation work by guide/co-guide

Name of the trainee:

Date:

Name of the faculty/observer

Sl. No.	Items for observation during observation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Periodic consultation with guide/co-guide					
2	Regular collection of case					



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	material						
3	Depth of analysis/ discussion						
4	Quality of final output						
5	Others						
	Total score						

## Schedule- VI Overall assessment sheet

Date:

Sl. No.	Faculty member	Name of the trainee and mean score							
		A	B	C	D	E	F	G	H

Signature of Head of the Department  
Principal

Signature of the

Key:

Faculty member: Name of the faculty doing the assessment

Mean score: Sum total of all scores of checklists

A,B, ....: Name of the trainee

Note: The overall assessment sheet used along with the logbook shall form the basis for certifying satisfactory completion of course of study, in addition to the attendance required.



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## Term Examination:

In addition, term exams are conducted at the end of the second year to evaluate the students' progress.

## University Examination:

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

### 1. Theory:

a. 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.

b. Part II – Shall consist of three papers

2. Practical and clinical examination

3. Viva-voce

4. 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.

## 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 therefore 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.



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## 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.

### Viva-Voce Examination:

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

### Scheme of Examination:

Theory Part I Basic Sciences Paper 100 Marks

Part II

Paper-I 100 Marks

Paper-II 100 Marks

Paper-III 100 Marks

Total 300

### Distribution of marks:

Theory (Total 400 Marks)

1. Part I University examination (100 Marks)  
There shall be 10 questions of 10 marks each

2. Part II (3 papers of 100 Marks):

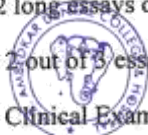
a. Paper I – 2 long essays of 25 marks each and 5 short essays of 10 marks each (100 Marks)

b. Paper II - 2 long essays of 25 marks each and 5 short essays of 10 marks each (100 Marks)

c. 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)



P.R.P. P

PRINCIPAL

M.R. Ambedkar Dental College & Hospital  
Bengaluru - 560 005



# MATHRUSRI RAMABAI AMBEDKAR DENTAL COLLEGE & HOSPITAL

(Founded by : Ananda Social & Educational Trust)  
ISO 9001:2015 CERTIFIED

Affiliated to Rajiv Gandhi University of Health Sciences  
Recognised by Dental Council of India

1/36, Cline Road, Cooke Town, Bengaluru - 560 005  
Ph: 080 - 2546 0747 [www.mradc.in](http://www.mradc.in)

## Examiners:

Part I: One internal and one external examiner for three students appointed by the affiliating university for evaluating answer scripts of the same specialty.

Part II: Four examiners in each subject. Two (50%) external and two (50%) internal. Both external examiners shall be from a university other than the affiliating university and one examiner shall be from a university of different state.

## Qualification and Experience for Examiners:

The qualification and experience for appointment of an examiner shall be as under:

- shall possess qualification and experience of a Professor in a post-graduate degree programme;
- a person who is not a regular post-graduate teacher in the subject shall not be appointed as an examiner; • the internal examiner in a subject shall not accept external examinership in a college for the same academic year;
- 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.

## Examination Centre:

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-voce shall be conducted at their institute. Rotation of the institutions as center of examination shall be as per direction of the university.

## 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.

## 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.



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## Methods of assessment of Graduate attributes:

### 1. Academic attributes Implementation and assessment:

- a. A planned curriculum is followed diligently to impart knowledge which includes student centric learning techniques along with didactic lectures.
- b. The postings in pre-clinical labs and clinics help them acquire hand-on experience in treating patients and become competent.
- c. Attending camps in rural areas, postings in satellite and peripheral centers, equip the students to treat patients in any setting independently, which also helps them learn community oral health perspective
- d. The under graduate students are also encouraged to take up short research projects which helps them to conceptualize evidence based solutions and sensitize them to research.

### 2. Professionalism and ethics Implementation and assessment:

- a. The institution conducts orientation day, white coat ceremony where topics pertaining to professionalism, ethics are dealt with in detail.

### 3. Community oral health perspective Implementation and assessment:

- a. Continuous dental education programs not only enhance knowledge on scientific topics but also on legal and social responsibilities of dental graduates.
- b. Apart from these, Camps, Special training programs and Oral health promotion activities are carried out to enhance the above skills.

### 4. Soft skills Implementation and assessment:

- a. Programs for improvement in soft skills are conducted every year where students hone their communication skills and learn about empathy and many other essential skills.



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