



M.C.E. Society's
**M.A. RANGOONWALA COLLEGE OF DENTAL
SCIENCES & RESEARCH CENTRE, PUNE**

Recognized by the Government of India &
Affiliated to the Maharashtra University of Health Sciences, Nashik.

2390-B, K.B. Hidayatullah Road, Azam Campus, Camp, Pune-411001 (Maharashtra)
E-mail: dean-mardental@mardentalcollege.or Website : www.mardentalcollege.org

Ref. No: MARDC/Adm/ 968 9A/ 2023

Date: 05-01-2023

The prescribed syllabus for BDS, in its revised form, has integrated and embedded learning of all traits and abilities required by the graduate to succeed in establishing his / her professional career and excel at NEET (National Entrance Eligibility Test) entrance examination for post-graduation course in dentistry.

Since all the aspects of career advancement to professional dentistry are included in the syllabus, all students enrolled (100%) for the BDS program are beneficiaries. Even though the curriculum is inclusive and our teachers are competent by virtue of their experience and expertise to endow these proficiencies to the students, periodic attempts are made to further enhance this aspect for undergraduates.

Adequate training and exposure provided through the syllabus is exemplified by various aspects of teaching and learning, as explained below

1. Basic Sciences

- General Anatomy including embryology and histology.
- General human physiology and Biochemistry.
- General Pathology and Microbiology.
- General and Dental Pharmacology and Therapeutics.
- General Medicine.
- General Surgery.

Throughout the course emphasis is placed on the functional correlation, clinical applications interdisciplinary teaching with dental disciplines.

PRINCIPAL

**M.A. RANGOONWALA COLLEGE OF DENTAL
SCIENCES & RESEARCH CENTRE, PUNE**



2. Preclinical Dentistry

- a. Dental Anatomy, Embryology and Oral Histology.
- b. Dental Materials and Sciences.
- c. Preclinical Prosthodontics and Crown and Bridge.
- d. Preclinical Conservative Dentistry.

3. Clinical Dentistry

- a. Prosthodontics and Crown and Bridge.
- b. Conservative Dentistry and Endodontics.
- c. Periodontology.
- d. Oral and Maxillofacial Surgery.
- e. Orthodontics and Dentofacial Orthopaedics.
- f. Pedodontics and Preventive Dentistry.
- g. Oral Medicine and Radiology.
- h. Oral Pathology and Microbiology.
- i. Public Health Dentistry.

Comprehensive clinical training imparted in terms of

- a. Case discussion.
- b. Clinical diagnosis and prognosis.
- c. Execution of treatment plan on patients under faculty supervision.
- d. Training for viva voce and pedagogy.



PRINCIPAL

**M. A. RANGOONWALA COLLEGE OF DENTAL
SCIENCES & RESEARCH CENTRE, PUNE**

3. Research Methodology and Biostatistics

- a. Research Methodology: Types of research; Designing a study.
- b. Prevalence, Sampling, Statistical Programs.
- c. Biostatistics: Collection and presentation of data.
- d. Publication of original research.

Research is backbone of clinical dentistry; thus, emphasis is laid on incorporating various aspects of the same in the curriculum.

4. Internship programme in the college:

One year compulsory rotating internship program encompassing various aspects such as key dental procedures, assistance in surgery, delivering and reinforcing oral hygiene instructions, maintenance of high standards of professional ethics, participation in CDE programmes to update professional skills, designing of dental clinics and guidance for career options to study abroad.

5. Ethics and Jurisprudence

At the final year BDS and Internship level, knowledge about the Code of Ethics, Dentist Act with amendment; Dental Council of India and State Dental Council as governing bodies is imparted in the curriculum.

At the conclusion of the course, the student should have the skill of identifying and treating oral health problems affecting the society, conducting oral and general health surveys and deciding oral health strategies. Students should develop a positive attitude and empathy towards the problems of the society and participate in the implementation of the National Oral Health Policy.



PRINCIPAL
M. A. RANGOONWALA COLLEGE OF DENTAL
SCIENCES & RESEARCH CENTRE, PUNE

It is therefore evident from the above that all areas of career advancement (Dentistry as a professional practice, research and training for NEET) are fulfilled adequately and all enrolled students are beneficiaries, especially in the final year BDS and internship program.



A handwritten signature in black ink, appearing to be "A. R. Singh", written over the stamp.

PRINCIPAL

**M. A. RANGOONWALA COLLEGE OF DENTAL
SCIENCES & RESEARCH CENTRE, PUNE**

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

SYLLABUS : FINAL BDS

Candidate will be examined in the following subjects :

1. Prosthodontics
2. Conservative Dentistry including Endodontics.
3. Pedodontics.
4. Oral and Maxillofacial Surgery.
5. Periodontics.
6. Orthodontics.
7. Oral Medicine and Radiology.

Subject 1 : PROSTHODONTICS AND CROWN AND BRIDGE

LECTURES: 50 Lectures.

Complete Denture Prosthodontics :

1. Introduction to Prosthodontics, Terminologies , Aims , Objectives and scope
2. Human Masticatory apparatus : General consideration.
3. Anatomical & Physiological Landmarks of the maxillary and Mandibular Foundations and their significance.
4. Patients education related to complete denture prosthesis.
5. History taking, examination, diagnosis and treatment planning of an edentulous patient.
6. Importance of Diet and Nutrition.
7. Surgical and Non surgical preparation of the patient.
8. Impressions for complete Denture:
Definition, Objectives.
Theories and Techniques of impression making.
9. Bordor moulding procedure with special attention to Posterior platal seal area.
Various techniques for cast preparation.

10) Record Bases and occlusion rims :-

materials and methods of preparation.

11) Jaw relation records – Methods and instrumentation.

14) Try in of waxed up Dentures.

Reproduction of gingival tissue morphology .

15) laboratory procedures ; Elasking , wax elimination , , packing, acrylisation, recovery of dentures.

16) Correction of processing errors – laboratory Remount procedure.



B] Removable partial Dentures. :30 Lectures.

1. Introduction to partial denture, various terminologies used in partial denture.
2. Various components of fixed and removable partial denture and their comparison.
3. Classification of partially edentulous dental arches.
4. Dental cast surveyor and use of surveying procedure, path of insertion and removal.
 5. Components of partial dentures; Their selection, requirements of design and indications. (principles of designing and stress control)
 - a) The partial denture bases.
 - b) The artificial teeth.
 - c) The Direct Retainer.
 - d) The major connector.
 - e) The minor connector.
 - f) The indirect retainer.
 - g) The stress breaker.
 - h) The precision attachments.
6. Examination, diagnosis , treatment planning, surveying of diagnostic cast.
7. Preparation of patient to receive partial denture : General preparation.
8. Tooth alteration procedure. Making final impression to get master cast. Various impression procedure and Reviews on materials used.
9. Definitive analysis of master cast, work authorization to Dental Technician.
10. Laboratory procedures related to casting for fabrication of partial denture framework (Audio Visual demonstration.)
11. Trying of cast partial framework in mouth, adjusting the occlusion. The functional impression : Altered cast technique.
12. Jaw Relation record, selection and arrangement of teeth & try-in of denture.
13. Acrylization of partial denture bases-
14. Insertion of Removable partial denture & instructions to patient .
15. Patients Complaints and their solution.
16. Factors influencing magnitude of stress transfer on abutment teeth.
17. Management of Kennedy Cl I & II Cases and Cl III & IV cases.
18. Perioprosthodontic relationship.



FIXED PROSTHODONTICS : Lectures :- 30.

1. Aims and objectives of fixed partial denture prosthesis, and effects of loss of natural tooth/ teeth.
2. Examination & Diagnosis for patient of fixed partial denture .
3. Treatment required prior to fixed denture prosthesis.
4. Oral anatomy, physiology and histology as related to fixed partial denture prosthesis
5. Terminologies related to fixed prosthodontics.
6. Types of fixed partial dentures.
7. Component parts of fixed partial denture - Retainer, Pontic & Connector
8. Abutment selection and Questionable abutment.
9. Individual abutment preparation to receive
 1. acrylic jacket crown
 2. Porcelain fused to Metal jacket crown
 3. Partial veneer.
 4. Metal veneer crowns.
10. Tissue management and gingival dilatation methods.
11. Impression procedures in fixed prosthodontics
12. Temporization procedures.
13. Die preparation and review of materials used for die preparation , Laboratory procedures for fabrication.
14. Try in of fixed partial denture.
15. Cementation of fixed partial denture,
16. Maintenance of fixed partial denture, instructions to patients , recall visits repair of F.P.D. Management of failures in fixed partial denture treatment.
17. Restoration of Endodontically treated tooth.
18. Introduction to adhesive bridges, laminates, All ceramic crowns.

Handwritten signature



Special Prosthesis : Lectures :- 20

Brief introduction & general consideration.

1. Maxillofacial prosthesis - Aims & objectives, various types , materials used for maxillofacial prosthesis. Obturators & splints.
2. Overdentures, Immediate denture, Intermediate/ Interim or denture Implant denture,
3. Prosthodontic consideration in geriatric patient.

Theory Hours :

- | | | | |
|----|--------------------------|---|----------|
| 1. | Complete Denture | : | 50 Hours |
| 2. | R.P.D. | : | 30 Hours |
| 3. | Fixed partial Denture | : | 30 Hours |
| 4. | Maxillofacial Prosthesis | : | 20 Hours |

hand special

Total 130 Hours

130 Hours Spread over Ist to IVth BDS

Preclinical Hours : 360 Hrs.

Spread over Ist & II BDS.

Clinical Hours : 540 Hrs.

Spread over IIIrd & IV BDS.

Total Duration : 1000 Hrs.

EXAMINATION PATTERN

I. Theory (Maximum) ----- 60 Marks

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

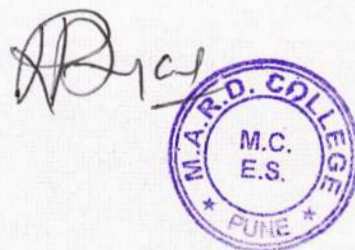
20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.



II. A) CLINICALS

i) Clinical for C.D.	60 Marks. (breakup as per proforma)
ii) Chairside Orals	15 Marks.
iii) Journal (work record)	05 Marks.
Total	80 Marks

B) i) Oral (Viva Voce) 20 Marks.

(A+B)= 100 Marks

III) Internal Assessment (Theory -20 + Practical - 20) = 40 Marks

Subject 2 : CONSERVATIVE DENTISTRY INCLUDING ENDODONTICS :

Theory Hours ... 70 Hrs. Spread over II,III & IV BDS

Preclinical Hrs .. 240 Hrs. Spread over II BDS.

Clinical Hours ... 360 Hrs. Spread over III rd & IV BDS.

Total Duration ... 670 Hrs.

LECTURES :

1. Definition and scope.
2. Oral Hygiene in relation to conservative dentistry.
3. Instruments-Nomenclature, design and formulae, care and Sterilization.
4. Examination, diagnosis and treatment planning.
5. Charting and recording of cases.
6. Histology of the tooth structure as related to the operative procedures.
7. Hypoplasias, Attrition, abrasion, erosion and their management.
8. Dental caries, etiology, Pathology, Clinical features, Classification diagnosis, prevention & control.
9. Cavities-classification and nomenclature.
10. Choice of filling materials.
11. Principles of cavity preparation, control of pain.
12. Prevention of damage to hard and soft tissue during operative procedures.
13. Methods employed for exclusion of saliva.
14. Bio-Mechanics of cavity design and restoration with filling materials. Pulp and tissue protection. Airotors - high speed equipment, air motor and micromotor Cavity preparation for various types of restorations including onlays inlays



and pinlays, Restorative procedures Matrices.

15. Drugs used in conservative dentistry.
16. Introduction to recent advances in restoration materials and procedures.
17. Fractured teeth and their management, effect of systemic diseases on dental tissues.
18. Sensitive dentine - its management.
19. Ceramics in Conservative Dentistry.
20. Perio-operative problems.
21. Biological aspects of restorative materials.
22. Role of conservative Dentistry in esthetics.
23. Current advances

ENDODONTICS :

1. Definition, aims, objects.
2. Rationale of endodontic therapy, morphology of root canal.
3. Diseases of the pulp and periapical tissue & endodontic entries.
4. Diagnostic aids in Endodontics.
5. Endodontic Instruments.
6. Care and sterilization on instruments for endodontics treatment of vital and non vital pulp. Tests for sterility of the root canal.
7. Drug used in root canal therapy.
8. Biomaterial preparation & obturation of Root canal various techniques and material used.
13. Geriatric endodontics.
10. Bleaching of teeth, Restoration of endodontically treated teeth.
11. Surgical treatment in Endodontics.
12. Emergencies in Endodontics, Endo-Perio Problems.
13. Recent advances.

EXAMINATION PATTERN :

I. Theory (Maximum)-----

60 Marks

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each

20 marks.



Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks

II. A) CLINICALS

- | | |
|---|-----------|
| i) History taking ----- | 10 Marks |
| ii) Cavity preparation for silver Amalgam
modified class II MO or DO
or Class I with Buccal and lingual extention | 25 Marks |
| iii) Base / Lining along with matrix Band adaptation | 15 Marks |
| iv) Permanent filling Restoration with Silver Amalgam
& chair side Orals. | 25 Marks. |
| iv) Record (Clinical Journal) | 05 Marks. |
| Total | 80 Marks. |
| B) i] Oral (Viva Voce) | 20 Marks. |

(A+B)= 100 Marks

III) Internal Assessment (Theory -20 + Practical – 20) = 40 Marks

Subject 3 : PEDODONTICS

Theory Hours ... 40 Hrs. Spread over III & IV BDS.

Clinical Hours ... 150 Hrs. Spread over III & IV BDS.

Total Duration ... 190 Hrs.



LECTURES :

1. Introduction, definition, scope, practice management and importance of pedodontics.
2. Growth and development of Dental and oro- facial structure and normal occlusion. Developmental anomalies Genetics related to pedodontics.
3. Morphology of Dentitions and its applications :
 - a) Allied Morphology and Histology of primary and young permanent teeth.
 - b) Importance of first permanent molar.
4. Fundamental of Dental Health.
 - a) Biological factors responsible for maintenance of dental and Oral Health.
 - b) Contributory Local factors affecting oral health plaque & Saliva etc.
5. Child psychology and management of child patient.
 - a. Physical development of child
 - b. Milestone of child development & behavioral pattern as narrated in various theories.
 - c. Fear & anxiety related to pedodontics.
6. Preventive, interceptive and early corrective orthodontics for children.
7. Examination, diagnosis and treatment planning.
8. Preventive dentistry, fluorides, fissure sealants diet counselling etc. Endemic fluorosis.
9. Endodontics in pediatric dentistry.
10. Clinical aspects of pediatric dentistry as related to
 - Setting of pedodontic clinic.
 - Teeth disorders.
 - Development Anomalies
 - Dental caries in children
 - Restorative Dentistry
 - Pulp Therapy and Endodontics
 - Space Maintainers & Myofunctional appliances .
 - Treatment of traumatized teeth.
 - Management of problems of the primary and mixed dentition period,
 - Gingival disorders in children.
 - Stomatological conditions in children



Management of handicapped children
Mouth habits and their managements.
Epidemology- Definition and general principal

11. Current advances.

CLINICALS

Case history diagnosis & treatment planning of 10 cases.

EXAMINATION PATTERN :

I. Theory (maximum)----- 60 Marks

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.

II. A) CLINICALS

i) Case History & Diagnosis	... 35 Marks
ii) Chair side Orals	... 25 Marks.
iii) Treatment Planning	... 10 Marks.
iv) Journal	... 10 Marks.

Total ----- 80 Marks.

B) Oral (Viva Voce) 20 Marks.

A + B = 100 Marks

III. Int. Assessment (Theory 20 + Practical 20) ----- 40 Marks



Subject 4 : ORAL & MAXILLOFACIAL SURGERY.

Theory Hours :

- | | | |
|----------------------------------|-----|----------|
| 1. Anaesthesia (Local & general) | ... | 10 Hours |
| 2. Exodontia | ... | 10 Hours |
| 3. Oral & Maxillofacial Surgery | ... | 40 Hours |

60 Hours

Spread over III & IV BDS.

Clinical Hours : 220 Hours

Total Duration : 280 Hours

LECTURES :

Local Anaesthesia :

1. Introduction, Theories of Local Anaesthesia.
2. Properties of an Ideal Local anaesthetic drug.
3. Classification & Properties of common local anaesthetic drugs in use.
4. Choice of anaesthesia, Local and general anaesthesia.
5. Indications and contra-indications, advantages and disadvantages of local anaesthesia.
6. Components of a standard local anaesthetic solution.
7. Mechanism of action of local anaesthesia.
8. Pre-anaesthetic medication.
9. Technique of infiltration anaesthesia, Nerve block Anaesthesia. Signs and Symptoms of anaesthesia.
10. Complications associated with local anaesthesia and their management.

General Anaesthesia :

1. Properties of general anaesthetic drugs commonly used.
2. Pre-anaesthetic preparation of a patient and pre-medication.
3. Evaluation of a patient for general anaesthesia.
4. Short anaesthesia in Oral surgery, Endotracheal Anaesthesia, Intravenous anaesthesia.
5. Signs and Symptoms of general anaesthesia.
6. Complications arising during the administration of general anaesthesia and their management.

Exodontia :

1. Objectives.



2. Indications and contra-indication for tooth extraction.
3. Pre-operative assessment.
4. Forcep extraction. (Intra-alveolar extraction.)
5. "Surgical extraction" (Trans-alveolar extraction).
6. Extraction under general anaesthesia in the dental chair.
7. Complications of tooth extraction and their management.

Oral & Maxillofacial Surgery :

1. Introduction of oral and maxillofacial surgery.
2. Diagnosis in Oral Surgery.
 - a) History taking
 - b) Clinical examination.
 - c) Special Investigations.
3. importance of general conditions of the patient in relation to Oral surgery.
4. Instruments used in Oral Surgery.
5. Basic principles of surgery. Sterilization & Asepsis, Suturing techniques.
6. Use of antibiotics in oral surgery.
7. Diagnosis, pre-operative assessment and treatment of impacted teeth.
8. Surgical procedure in relation to endodontic therapy (Apicectomy).
9. Pre-prosthetic surgery including oral implantology
10. Oro-facial infections, their diagnosis and treatment.
11. Inflammatory diseases of jaw bone and their management..
12. Diagnosis and management of Cysts of Oral Cavity.
13. Fractures of facial skeleton, Diagnosis and management.
14. Diagnosis and treatment of benign & malignant neoplastic lesions of the oral cavity (odontogenic & non-odontogenic).
15. Precancerous lesions of oral cavity, diagnosis and management.
16. Surgical Orthodontics - broad outlines.
17. Diseases of Maxillary sinus. with special reference to Oro-antral fistula.
18. Management of haemorrhage and shock in Oral Surgery.
19. Diseases of salivary glands, Diagnosis and Treatment.



20. Diseases of temporomandibular joint & its management.
21. Neurological disorders, Trigeminal Neuralgia & facial palsy.
22. Cleft lip & cleft palate.
23. Emergencies in oral surgery and its management.
24. Recent advances



EXAMINATION PATTERN :

I. THEORY (Maximum)----- 60 MARKS.

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each..... 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.

II. A) CLINICALS

i) History Taking X-ray Interpretation,

Instruments & Drugs ... 20 Marks

ii) Local Anaesthesia Technique ... 15 Marks.

iii) Exodontia Technique ... 25 Marks.

iv) Post Operative instructions,

Management & Chairside orals ... 15 Marks.

v) Journal ... 05 Marks.

Total 80 Marks.

B) Oral (Viva Voce) .. 20 Marks.

A + B = 100 Marks

III. Int. Assessment (Theory 20 + Prct. 20) ... 40 Marks

Subject 5 : PERIODONTICS.

Theory Hours : 60 Hours.

Clinical Hrs. : 220 Hours.

Total Duration : ... 280 Hours. Spread over III & Final BDS

LECTURES :

1. Introduction - Scope and applicability of the subject.
Historical background of periodontology.
2. Maintenance of Health Role and scope of oral physiotherapy measures, patient education programme and periodic check.
3. Etiopathogenesis Classification of gingival and periodontal diseases. Defence mechanism of oral cavity.
4. Gingival enlargement.
5. Infective muco-gingival conditions-specific and non-specific.



6. Degenerative conditions-Viz disquative gignivities and Junvenile periodontics (Gingivosis and Periodontosis.)
7. Atrophic conditions affecting gingival and periodontal tissues including aging.Periodontal problems in growing children.
8. Local and systematic factors in the causation of gingival and periodontal lesions.
9. Periodontitis and its sequelae.
10. Malocclusion, Malalignment and traumatic occlusion, Bruxsim and Temporo mandibular joint disturbances, occlusal equilibration.
11. Diagnosis and diagnostic aids including roentgenography and its uses and limitations.
12. Prognosis.
13. Morphological defects of the muco-gingival structures influencing periodontium and their treatment.
14. Treatment of all gingival and periodontal disturbances treatment planning phase and rationale. And periodontal charting Different available therapeutic procedures.
Healing Mechanism.
15. Role of Nutrition in etiology and treatment of periodontal diseases.
16. Drugs & materials used in periodontics.
17. Instrumentation.
18. Splints.
19. Preventive periodontics.
20. Concept of focal infection.
21. Oral hygiene practices in India.
22. Inter disciplinary care & recent advances, Implants,
23. Systemic effects of periodontal diseases in brief.
24. Recent advances in periodontics .



EXAMINATION PATTERN :

I.THEORY (Maximum)-----60 MARKS.

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.

II. A) CLINICALS

i) Case History	. 20 Marks
ii) Instrumentation & Scaling	... 40 Marks.
iii) Post Operative instructions and chairside orals.	... 15 Marks.
iv) Journal	... 05 Marks.
Total -----	80 Marks.
B) Oral (Viva Voce) .	20 Marks.
A + B =	100 Marks.

III. Internal Assessment (Theory 20 + Practical 20) 40 Marks.



Subject 6 : ORTHODONTICS.

Theory Hours : 40 Hours.
Practicals & Clinical Hrs. : 150 Hours.

Total Duration : ... 190 Hours. Spread over III & Final BDS

LECTURES :

Stress in lectures should be on the Preventive and Interceptive principles of Orthodontics.

1. Definition, Aims, objects and scope of Orthodontics.
2. Growth and Development of jaws, teeth, face and skull.
3. Genetics as applied to Orthodontics.
4. Normal occlusion and its characteristics. Factors responsible for establishment and maintenance of normal occlusion.
5. Malocclusion-types, different classifications & differential diagnosis.
6. Aetiology of malocclusion.
7. History taking and examination of patient and case analysis and differential diagnosis including photographic analysis, cephalometrics and analysis and treatment planning and prognosis.
8.
 - a) Preventive and interceptive treatment aids of malocclusion.
 - b) Space management in orthodontics.
 - c) Treatment of CI I, CI II, CI III malocclusions
9. Appliances used in Orthodontic treatment - Adequate knowledge of removable and fixed appliances, Mechanical appliances and functional appliances
10. Biological and biomechanical aspects of Orthodontics treatment.
11. Retention after treatment and relapse.
12. Materials used in Orthodontics.
13. Habit breaking appliances.
14. Surgical Orthodontics.
15. Current advances.

EXAMINATION PATTERN :

I.THEORY (Maximum)----- 60 MARKS.

Theory (written) paper shall be of three hours duration.



Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.

II. A) PRACTICALS / CLINICALS

i) Wire bending and Preparation of an appliance in wax	...	40 Marks.
ii) Model Analysis (any two indices with brief treatment plan)	...	15 Marks.
iii) Identification of appliances, cephalometric landmarks.	...	20 Marks.
iv) Journal	...	05 Marks.
Total		80 Marks.
B) Oral (Viva Voce)	...	20 Marks.
A + B	=	100 Marks.

III. Internal Assessment (Theory 20 + Prctical. 20) ...40 Marks.



Subject 7 : ORAL MEDICINE, DIAGNOSIS & RADIOLOGY.

Theory Hours : 40 Hours.

Clinical Hrs. : 90 Hours.

Total Duration : ... 130 Hours. Spread over III & IV BDS

LECTURES :

Oral Medicine and Diagnosis :

1. Scope and importance of the subject.
2. Acute infections of oral & perioral structures.
3. Ulcerative & Vesiculobullous lesions of oral cavity.
4. Red and White lesions affecting oral mucosa.
5. Pigmentation of oral-tissues.
6. Diseases of tongue.
7. Diagnosis and differential diagnosis of Caries, Pulpitis & Periodontitis & regressive changes of dentition.
8. Metabolic, allergic and Endocrine disturbances and their oral manifestations.
9. Nutritional deficiencies and their significance in dentistry.
10. Blood dyscrasias and their management.
11. Oral sepsis and its effect on general system.
12. Dermatological disorders & their oral manifestations.
13. Disorder of Temporomandibular joints.
14. Diseases of Jaw-bone.
15. Diseases of Maxillary-Sinus.
16. Oral Pre-malignant lesions.
17. Benign & malignant neoplasms of oral cavity.
18. Cervico-facial lymphadenopathy.
19. Diseases of salivary glands.
20. Oro-Facial pain.
21. Cysts of the oral cavity.
22. Management of Cardiac patient in dentistry.
23. Methods of diagnosis including special investigations.
24. Immunological concepts of oral lesions, HIV Infection, Hepatitis & other viral infections.
25. Forensic odontology.
26. Recent advances.



RADIOLOGY

1. Physics of radiation Production and properties of X-rays and radiation biology.
2. Principles of X-ray production & fluoroscopy factors affecting procedure radiographs, Intensifying screens and grids and dark room procedures.
3. Technique of intra oral and extra-oral Radiography and normal anatomical land marks.
4. Radiological interpretation of abnormal dental and jaw conditions. & manifestation of systemic disease in jaw.
5. Elements of Radiation treatment in oral and facial conditions and their sequelae.
6. Contrast radiography and recent advances in dental Radiology including Radioactive traces.
7. Recent advances in imaging.

EXAMINATION PATTERN :

I. THEORY(Maximum) 60 Marks.

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

20 multiple choice questions carrying one mark each.... 20 marks.

Section B : SAQ - Total 20 marks.

Ten short questions carrying two marks each 20 marks.

Section C : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each 20 marks.

II.A) CLINICALS

i) Case History, clinical examination, 25 Marks.

Diagnosis,treatment planning of a
case and chairside orals ...

ii) Taking an IOPA and processing
with Interpretation ... 25 Marks.

iii) Interpretation of five clinical
slides/or Radiographs. 25 Marks.

iv) Journal ... 05 Marks.

Total ----- 80 Marks.

B) Oral (Viva Voce) ... 20 Marks.

A + B = 100 Marks.

III) Internal Assessment (Theory -20 , Practical – 20) = 40 Marks



APPENDIX-C

SCHEME OF INTERNAL ASSESSMENT

To assess the overall progress of the students by evaluating the professional skills he/she has developed and the knowledge he has got it is necessary to assess the students periodically. The marks to be allotted should be real estimate of the students achievement of skills and subject knowledge without any prejudice.

Maximum marks allotted for internal assessment for each subject head in theory and practical/clinical will be 20 % of the total marks.

In all four college tests shall be conducted in one academic year i.e. two tests in each term. Each test will have marks as under:

For final B.D.S. subjects :- Four college tests tube conducted in theory in final B.D.S. only. However for clinical & Practical test – 2 tests to be conducted in 3rd B.D.S. as a post ending test and 2 tests to be conducted in final BDS as a post ending test during clinical posting as under.-

FIRST TERM.

- a. First internal (for the syllabus completed from the start of term till commencement of the examination) Unit Test.
- b. Second Internal : Should include entire syllabus completed in first term (TERMINAL EXAMINATION)

SECOND TERM

- c. Third internal : Should including the topics covered only in the second term till the commencement of the examination (Unit Test)
- d. Fourth Internal should include entire syllabus prescribed by the university (PRELIMINARY EXAMINATION)
- e. The pattern of Internal Assessment will be as under:

1. THEORY

Written 40 Marks.

(Section A : 20 MCQ ... 10 Marks, Section B : 10 SAQ ... 20 Marks, Section C : Two LAQ ... 10 Marks,)

Oral 10 Marks.

Total ----- 50 Marks.

2. PRACTICAL/CLINICAL 50 Marks.

The marks for each test will be brought down to ... 5 Marks.



MAHARASHTRA UNIVERSITY OF HEALTH SCIENCE, NASHIK

Scheme of Practical & /or Clinical examination

University Practical/Clinical Examination ...

80 Marks

The Practical/Clinical examination shall be conducted at the centres where adequate facilities are available to conduct such examinations and the centre/college is approved/recognised by Dental Council of India.

Not more than 30 students to be examined per day. The marks should be submitted in the proforma (Appendix - E & F) supplied by the University Authority. This proforma should be signed by the examiners. Over writing or scratching will not be permitted. Any corrections made, must have the counter-signature of external examiners. The sealed envelop containing this proforma shall be submitted on the same day to the Dean for onward transmission to the Controller of examinations, Maharashtra University of Health Sciences, Nashik. No examiner or any other person connected with the work of practical examination is permitted to carry any paper or violate the rules of examination. The person found guilty will be debarred from such Confidential work for a minimum period of 5 Consecutive University examinations or the actions as suggested by the relevant Committee to investigate such matters.

APPENDIX-E

FORMAT OF THE PRACTICAL / CLINICAL EXAMINATION MARKS

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

Chart showing marks obtained by the candidates in practical / clinical examination, to be submitted by the examiner in sealed cover through the Dean of the college to the Controller of Examination, MUHS, Nashik

Name of Examination : Final B.D.S.

Summer / Winter 200__

Centre : _____

1) SUBJECT : PROSTHODONTIC, CROWN AND BRIDGE

Max. Marks 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Checking of Special Tray/or Record Bases (To Be kept ready by the Student)	Border Moulding Procedure or Establishing Vertical Jaw Relation	Final Impression or Recording Centric Jaw Relation	History and Examinations T/P and Chair Side Orals Related to Clinical Work	Clinical Work Record (Journal)	Total
	(10)	(25)	(25)	(15)	(5)	(80)



2) SUBJECT : CONSERVATIVE DENTISTRY INCLUDING ENDOTONTICS Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	History taking Examinations and Treatment Planning	Cavity Preparation for Silver Amalgum Modified Class II MO. or DO or Class one Cavity with Buccal or Lingual Extentions	Base/Lining alwong with Materix Band adapation	Registration with Dental Amalgum and Chair side orals related with exercises	Clinical Work Record	Total
	(10)	(25)	(15)	(25)	(5)	(80)

3) SUBJECT : PEDODONTICS

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case Exam. of a Child History taking and Diagnosis	Chair Side Orals	Treatment Planning	Record (Journal)	Total
	(35)	(25)	(10)	(10)	(80)

4) SUBJECT : ORAL MAXILLOFACIAL SURGERY

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case History Exam. X-ray Enterpretation Instruments and Drugs.	Local Anaesthesia Technique	Exodontia Technique	Post Operative Instructions, Management and Chair Side Orals	Journal	Total
	(20)	(15)	(25)	(15)	(5)	(80)

5) SUBJECT : PERIODONTICS

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case History Exam. Treatment Planning	Scalling and Polishing and Instrumentation	Post Operative Instructions and Chair Side Orals	Journal	Total
	(20)	(40)	(15)	(5)	(80)



6) SUBJECT : ORTHODONTICS

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Wire Bending and preparation of an appliance in Wax	Model Analysis (Any tow indices with Brief Treatment Plan)	Identification of Appliances Cephalomteric Landmarks	Journal	Total
	(40)	(15)	(20)	(5)	(80)

7) SUBJECT : ORAL MEDICINES (ORAL DIAGNOSIS) RADIOLOGY Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case History Exam. Treatment Planning and Chair side Oral	Taking IOPA and Processing with Interpretation	Interpretation of Five Clinical Slides or Radiographs	Journal	Total
	(25)	(25)	(25)	(5)	(80)

NAME AND SIGNATURE OF EXAMINERS

1) External Examiner : _____

2) Enternel Examiner : _____

(Common to All)



APPENDIX B
MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK
Scheme of Examination for Final B.D.S Examination

Sr.No.	Subject	Subheads	Maximum marks allotted	Minimum marks required to pass in each sub head	Maximum marks allotted	Minimum marks required for awarding distinction
1	Prosthodontics	i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical + Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
2	Conservative Dentistry including Endodontics	i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical + Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
3	Pedodontics	i) Theory (Written) ii) Oral	60 20	- -		



		iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	80 20 100	40 - 50	200	150
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
4	Oral and Maxillofacial Surgery	i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
5	Pedodontics	i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		



6	Orthodontics	i) Theory (Written)	60	-	200	150
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
		iv) Theory + Oral + Internal Assessment (Theory)	100	50		
		i) Practical/Clinical	80	40		
7	Oral Medicine and Radiology	ii) IA Practical/Clinical	20	-	200	150
		iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	100	50		
		i) Theory (Written)	60	-		
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
iv) Theory + Oral + Internal Assessment (Theory)	100	50				
		i) Practical/Clinical	80	40		
		ii) IA Practical/Clinical	20	-		
		iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	100	50		
Grand Total					1400	1050

