Course structure
&
Revised Syllabus

B.D.S. (2\textsuperscript{nd} Professional & Final Professional)
2019-20
&
M.D.S. (Conservative Dentistry & Endodontics)
2019-20
DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS
DR. Z. A. DENTAL COLLEGE, FACULTY OF MEDICINE, AMU, ALIGARH

Date: 09-08-2019

Programme: B.D.S. (2nd professional)
Subject: Preclinical Conservative Dentistry (J.O.T)
Session: 2019-2020
Passed in BOS held on: 05-08-2019

Course code: BDSB / BDS2P5
Maximum Marks: 100
Sessional Marks: 20
End Term Exam Marks: 80

Topics to be covered:

1. Definition & scope of operative dentistry, tooth nomenclature,
2. Infection control in operative dentistry (Revised)
3. Dental caries, definition, classification, diagnosis, etiopathogenesis.
4. Dental caries management and prevention.
5. Instruments nomenclature, design and formulae.
6. High speed equipments in dentistry.
7. Examination, diagnosis and treatment planning
8. Fundamentals of tooth preparation
9. Bio-mechanics of cavity design and restoration with filling materials,
10. Pulp and soft tissue protection
11. Choice of filling materials
12. Direct restorative materials
13. Fundamentals of enamel and dentin adhesion (Revised)
14. Indirect restorative materials (Revised)
15. Cavity preparation for various type of restorations including inlays and onlays.
17. Charting and recording of cases.

Sd-
(Prof. Ashok Kumar)
Chairperson
Course code: BDSB/BDS417
Maximum Marks: 200
Sessional Marks: 20 (Theory & practical)
End Term Exam Marks: 180

Topics to be covered:

1. Definition, scope, examination, diagnosis and treatment planning in operative dentistry
2. Instruments nomenclature, design and formulae, care and sterilization
3. Dental Caries- aetiology, diagnosis and management
4. Principles of tooth preparation,
5. Analgesia and pain control in operative dentistry
6. Preliminary considerations for operative dentistry and Isolation of the operating field.
7. Dental amalgam properties and manipulation
8. Tooth preparation for class I, II, III and V amalgam restorations
9. Complex amalgam restorations
10. Choice of filling materials
11. Dental casting alloys and casting procedures
12. Varnishes liners and bases
14. Direct tooth coloured restorations.
15. Cavity preparation for various type of restorations including inlays and onlays
16. Direct gold restorations
17. Fractured teeth and their management
18. Management of discoloured teeth
19. Indirect tooth colored restorations
20. Ethics and dental jurisprudence (Revised)
21. Evidence based dentistry

22. Management of dentin hypersensitivity (Revised)

(Remark : Maximum Marks – 200 are for both Part A & Part – B )
Course code: BDSB / BDS418
Maximum Marks: 200
Sessional Marks: 20 (Theory & practical)
End Term Exam Marks: 180

Topic to be covered:

1. Introduction, scope and rationale of endodontic therapy
2. Diagnostic aids in Endodontics,
3. Pulpal and peri-radicular diseases
4. Endodontic instruments, Care and sterilization
5. Case selection and treatment planning in endodotics
6. Tooth morphology and Access cavity preparation
7. Working length determination (Revised)
9. Techniques of root canal preparation - Rotary endodontics (Revised)
10. Irrigation in endodontics
11. Obturation of the root canal system
12. Drugs used in root canal therapy
13. Vital pulp therapy
14. Management of endodontic emergencies
15. Management of traumatic dental injuries
16. Bleaching of teeth
17. Restoration of endodontically treated teeth
18. Endodontic surgery
19. Endodontic and periodontal interrelationships
20. Micro- dentistry

(Sd-
(Prof. Ashok Kumar)
Chairperson

(Remark : Maximum Marks – 200 are for both Part A & Part – B )
DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS
DR. Z. A. DENTAL COLLEGE, FACULTY OF MEDICINE, AMU, ALIGARH

Date: 09-08-2019

Programme: M.D.S.
Subject: Applied Basic Sciences
(effective from) Session: 2019 -2020
Passed in BOS held on: 05-08-2019

Course code: MDSM / MDCD01
Maximum Marks: 100
End Term Exam Marks: 100

Following subjects/topics will be covered:

1. Applied Anatomy
2. Physiology
3. Pathology including Oral Microbiology
4. Pharmacology
5. Biostatistics
6. Research Methodology and

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Chairperson
Date: 09-08-2019

Programme: M.D.S.
Subject: Conservative Dentistry
(effective from) Session: 2019 -2020
Passed in BOS held on: 05-08-2019

Course code:MDSM / MDCD02
Maximum Marks: 100

Topics to be covered:

1. Examination, diagnosis and treatment plan.
2. Occlusion as related to conservative dentistry, contact, contour, its significance.
5. Hand and rotary cutting instruments - development, speed, hazards.
6. Dental burs and other modalities of tooth reparation – recent developments
7. Infection control procedures in conservative dentistry, isolation equipments etc.
8. Direct concepts in tooth preparation for amalgam, composite, GIC and restorative techniques, failures and management.
9. Direct and indirect composite restorations.
10. Indirect tooth colored restorations – ceramic, inlays and onlays, veneers, crowns, recent advances in fabrication and materials.
11. Tissue management.
12. Impression procedures used for indirect restorations.
13. Cast metal restorations, indications, contraindications, tooth preparation for class 2
15. Restorative techniques, direct and indirect methods of fabrication including materials used for fabrication like inlay wax, investment materials and Direct gold restorations.
16. Recent advances in restorative materials and procedures.
17. Management of non-curious lesion.
18. Advance knowledge of minimal intervention dentistry.
19. Recent advances in restoration of endodontically treated teeth and grossly decayed teeth.
20. Hypersensitivity, theories, causes and management.
22. CAD-CAM in restorative dentistry.
23. Dental imaging and its applications in restorative dentistry (clinical photography)
24. Principles of esthetics
Programme: M.D.S.
Subject: Endodontics
(effective from) Session: 2019-2020
Passed in BOS held on: 05-08-2019

Course code: MDSM / MDCD03
Maximum Marks: 100

Topics to be covered:

1. Rationale of endodontics.
3. **Endodontics records and legal responsibilities (Revised)**
4. Dentin-pulp complex and Pathobiology of pulp and periapex.
5. Diagnostic procedure – recent advances and various aids used for diagnosis.
6. Orofacial dental pain emergencies: endodontic diagnosis and management
7. Case selection and treatment planning.
8. Infection control procedures used in Endodontics
10. Endodontic instruments and instrumentation – recent developments.
11. Working length determination / BMP of root canal system and recent development
12. Root canal irrigants and intra canal medicaments
14. Obturating materials, various obturation techniques and recent advances.
15. **Management of traumatic dental injuries with special focus on treatment of immature apex (Revised)**
16. Biological scaffold and regenerative endodontics (Revised)
17. Endodontic surgeries, recent development technique and device.
18. Endodontic interrelationship, Endo-Perio lesion and management
19. **Antibiotic prophylaxis in Endodontics (Revised)**
20. Restoration of endodontically treated teeth, recent advances.
22. Biological of wound healing (Revised)
23. Lasers in Endodontics.
24. Local anesthesia in endodontics.
25. Procedural errors in endodontics and their management.
26. Endodontics failures and retreatment.
27. Resorptions and its management.
28. **Radiography and Radiation protection (Revised)**
29. Single visit endodontics, current concepts and controversies
Programme: M.D.S.
Speciality: Conservative Dentistry & Endodontics
(effective from) Session: 2019 -2020
Passed in BOS held on:05-08-2019

DISTRIBUTION OF MARKS

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<td>Papers</td>
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<td>Part I</td>
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<td>Paper – I: Applied Basic Science</td>
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<tr>
<td>Part II</td>
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<tr>
<td>Paper – I: Conservative Dentistry</td>
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<tr>
<td>Paper – II: Endodontics</td>
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<td>Paper – III: Descriptive and analysing type questions (Essays)</td>
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<tr>
<td>Viva-voce and Pedagogy</td>
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Sd-
(Prof. Ashok Kumar)
Chairperson

of the Ordinary meeting of the Board of Studies of the Department of Conservative Dentistry & Endodontics, Dr. Z.A. Dental College, AMU, Aligarh was held on 05-08-2019 at 01:00 pm in the chamber of the chairperson, Department of Conservative Dentistry & Endodontics, Dr.Z.A.Dental College, AMU., Aligarh

The following members were present:

1. Prof. R.K.Tewari (Professor & Principal)
2. Prof. Mohd. Tariq (Assigned Member)
3. Prof. S.K.Mishra (Member)
4. Dr. Syed Mukhtar –Un-Nisar Andrabi (Member)
5. Dr. Sharique Alam (Member)
6. Dr. Sajid Ali (Member)
7. Dr. Asma Zoya (Member)
8. Prof. Ashok Kumar (In Chair)

After welcoming the members the Chairman put forward the agenda items in the meeting for discussion:

Item No. 1: To confirm the minutes of the last meeting of the Board of Studies held on 22-04-2019.
Confirmed the minutes of the last meeting of Board of Studies held on 22-04-2019.

Item No. 2: To consider the allotment of supervisors and Co-Supervisors for MDS I\textsuperscript{st} year (Admitted batch-2019) in the subject of Conservative Dentistry & Endodontics.
Considered and approved the allotment of supervisors and Co-Supervisor for MDS I\textsuperscript{st} Year (Admitted batch-2019) in the subject of Conservative Dentistry & Endodontics.

1. Name of Candidate : Dr. Asmat Fatima
   Date of Admission : 01-05-2019

   Supervisor : Prof. R.K.Tewari
   Deptt. of Conservative Dentistry & Endodontics,
   Dr. Z.A. Dental College,AMU

   Co-Supervisor : Dr.Syed Mukhtar-Un-Nisar Andrabi
   Assistant Professor
   Deptt. of Conservative Dentistry & Endodontics,
   Dr. Z.A. Dental College,AMU
2. Name of Candidate : Dr. Shaziya Anjum
   Date of Admission : 01-05-2019
   Supervisor : Prof. S.K. Mishra
                Deptt. of Conservative Dentistry & Endodontics,
                Dr. Z.A. Dental College, AMU
   Co-Supervisor : Dr. Sajid Ali
                   Assistant Professor
                   Deptt. of Conservative Dentistry & Endodontics,
                   Dr. Z.A. Dental College, AMU

3. Name of Candidate : Dr. Sharmila S.
   Date of Admission : 01-05-2019
   Supervisor : Prof. Ashok Kumar
                Deptt. of Conservative Dentistry & Endodontics,
                Dr. Z.A. Dental College, AMU
   Co-Supervisor : Dr. Sharique Alam
                  Assistant Professor
                  Deptt. of Conservative Dentistry & Endodontics,
                  Dr. Z.A. Dental College, AMU

**Item No.3** : To consider & revise the syllabus of MDS Examination-2022 (Admitted Batch-2019).

Considered and approved the syllabus of MDS Examination 2022 (Admitted batch-2019) main &
supplementary examination in the subject of Conservative dentistry & endodontic as per DCI
regulations (New Topics added: (i) Research Methodology & (ii) Occupational safety and
Procedural accident) in addition to the existing syllabus as per the DCI regulations and same has
been sent to the controller of examination through proper channel vide Our D.No. 387/Cons dated
07-08-2019.

**Item No.4** : To consider & revise the syllabus of BDS 2nd and final year-2020 examinations.
Considered and approved the syllabus of BDS 2\textsuperscript{nd} year and final year-2020 examination as per DCI regulation and sent to the Controller of Examination through proper Channel vide our D.No. 387/Cons.Dc dated 07-08-2019.

\textbf{Item No.5:} Teaching allocation for BDS 2016 and 2018 batches

Teaching allocation was considered and approved for BDS 2016 and 2018 batches & copy send to the Dean, Faculty of Medicine, AMU vide our D.No. 375/Cons.DC dated 06-08-2019.

\textbf{Item No.6:} Teaching allocation for MDS 2017, 2018 and 2019 batches.

Teaching allocation was considered and approved for MDS 2017, 2018 and 2019 batches and copy send to the Dean, Faculty of Medicine, AMU vide our D.No. 375/Cons.DC dated 06-08-2019.

\textbf{ITEM No.7:} To decide the guest lecture arrangement.

Decided and approved the guest lecture arrangement preferably will be organize between September, 2019 to December, 2019.

\textbf{ITEM No.8:} To consider and approve annual report of the Deptt. of Conservative Dentistry & Endodontics.

Considered and approved the annual report for the year 2018-19 of the Deptt. of Conservative Dentistry & Endodontics

\textbf{Any other item(s):}

(i) To consider the starting of Implant and Restorative Dentistry clinic in the Deptt. of Conservative Dentistry & Endodontics

Considered and approved to start implant and restorative dentistry clinic and required the following equipments for this purpose.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Required equipments</th>
<th>Quantity</th>
<th>Approx. (Cost)</th>
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<tbody>
<tr>
<td>1.</td>
<td>Physiodispenser</td>
<td>01</td>
<td>Rs. 1.80 Lacs</td>
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<td>(Make : NSK Japan)</td>
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<tr>
<td>2.</td>
<td>Implant Kit</td>
<td>01</td>
<td>Rs. 01 Lac</td>
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<tr>
<td>3.</td>
<td>Surgical Instruments</td>
<td>Multiple items</td>
<td>Rs. 0.40 Lac</td>
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<td><strong>Total Amount</strong></td>
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<td><strong>Rs. 3.20 Lacs</strong></td>
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Sd/-
(Prof. Ashok Kumar)
Chairperson