

# POSTGRADUATE RESIDENCY PROGRAM

MS Phase – B

Course Curriculum

Conservative Dentistry & Endodontics



Bangabandhu Sheikh Mujub Medical University

Shahbag, Dhaka

A0-1  
J. J. J.  
4.12.2014.

**\* Course Content (Block Wise):**

Block : I (Protocol Development & Exercise Work)  
 Duration : 6 months (From 1<sup>st</sup> March to 31<sup>st</sup> August)  
 EBA : At the end of the block.

**Contents :**

| Academic Part  | Clinical & Training Part  | Research Part   |
|--|---|---|
| 1. General Skill :<br>a. Research Methodology<br>b. Medical Statistics<br>c. Medical Education.<br><br>2. Customized basic in Operative & Endodontics. | <b>OPD training</b><br>1. Diagnosis.<br><br><b>Endodontics</b><br>2. Endodontic treatment of Anterior teeth (Vitro +Vivo).<br><br><b>Operative</b><br>3. Class I Cavity ( Vitro +Vivo). | 1. Protocol development for Thesis.<br><br>2. Development of Computer data entry skill. |

**Syllabus:**

1. Introduction & scope of operative dentistry & Endodontics .
2. Rational of operative dentistry & Endodontics .
3. Development of jaw teeth & supporting structure.
4. Basic Concept of dental Caries.
5. Anatomy of pulp & Development of periadicular tissue.
6. Sterilization of operative & Endodontic instrument.
7. Mouth & tooth preparation.
8. Isolation of the tooth.
9. Armamentarium in endodontics & Operative dentistry.
10. Morphology & internal anatomy of anterior teeth.
11. Case selection & treatment plan.
12. Access cavity preparation of anterior teeth.
13. Diagnosis of pulpal & periradicular diseases.
14. Evaluation of endodontics treatment outcome.
15. Basic Concept of radiology.
16. Local Anesthesia.
17. Obturation of anterior teeth.
18. Errors during Cavity preparation of anterior teeth.
19. Irrigation.
20. Interim restoration.

**\* Course Content (Block Wise) :**

Block : 2  
 Duration : 6 month (from 1<sup>st</sup> September to 28<sup>th</sup> February)  
 EBA : At the end of the block.

**Contents :**

| Academic Part   | Clinical & Training Part   | Research Part  |
|---|--|--|
| 1. Customized basics on operative dentistry & Endodontics . | <b>OPD training</b><br>1. Diagnosis.<br><br><b>Endodontics</b><br>2. Endodontic treatment of Premolar teeth (Vitro +Vivo).<br><br><b>Operative</b><br>3. Class II Cavity (Vitro+Vivo). | 1. Protocol Presentation, Finalization & Submission.<br><br>2. Data Collection for the thesis. |

**Syllabus:**

1. Internal anatomy of premolar teeth.
2. Endodontics in medically compromised patient.
3. Local anesthesia.
4. Histopathology & management of dental caries.
5. Minimally invasive dentistry.
6. Microbiology related to endodontics.
7. Restorative materials.
8. Management of discolored teeth.
9. Management of open apices of teeth.
10. Patient evaluation. Diagnosis, Diagnostic procedure & treatment planning of Oro-facial pain.
11. Bonding System.
12. Customized Radiology.
13. Tooth Hypersensitivity.
14. Basic concept of cavity preparation with their errors.

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 Chairman  
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 B S M Medical College  
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**\* Course Content (Block Wise):**

Block : 3  
 Duration : 6 months (From 1<sup>st</sup> March to 31<sup>st</sup> August)  
 EBA : At the end of the block

**Contents :**

| Academic Part   | Clinical & Laboratory Training Part  | Research Part                |
|---|--|------------------------------|
| <p><b>1. Specialty Skill :</b></p> <p>a. Applied basics of Operative dentistry &amp; Endodontics.</p> | <p><b>OPD training</b></p> <p>1. Diagnosis.</p> <p><b>Endodontics</b></p> <p>2. Endodontic management of Mandibular Molar teeth.</p> <p><b>Operative Dentistry</b></p> <p>3. Class III +IV Cavit (Invitro &amp; vivo).</p> | <p>1. Sample Collection.</p> |

**Syllabus:**

1. Morphology of Mandibular Molars.
2. Case Selection & treatment plan of Mandibular Molars.
3. Access Cavity preparation of Mandibular Molars.
4. Canal preparation of Mandibular Molars.
5. Customized Radiology.
6. Local Anesthesia.
7. Basic Concept of Non-Carious tooth surface loss.
8. Pin retained restoration.
9. Management of oro-facial pain.
10. Operative dentistry & endodontic in medically compromised patient.
11. Minimally intervention dentistry.
12. Surgical endodontic.
13. Pulp protection.
14. Pulpal response to caries & restorative procedure.
15. Endodontic emergencies.

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**\* Course Content (Block Wise):**

Block : 4  
 Duration : 6 months (From 1<sup>st</sup> September to 31<sup>st</sup> February)  
 EBA : At the end of the block

**Contents :**

| Academic Part  | Clinical & Laboratory Training Part   | Research Part                            |
|--|---|--|
| <p><b>1. Specialty Skill :</b></p> <p>a. Applied basics of Operative dentistry &amp; Endodontics .</p> | <p><b>OPD training</b></p> <p>1. Diagnosis.</p> <p><b>Operative Dentistry</b></p> <p>1. Class V &amp; VI Caries (Invitro &amp; vivo).</p> | <p>1. Sample Collection</p> <p>.....</p> |

**Syllabus:**

1. Morphology of Maxillary Molars.
2. Case Selection treatment plan of Maxillary Molars.
3. Access Cavity preparation of Maxillary Molars.
4. Canal preparation of Maxillary Molars.
5. Obturation of maxillary teeth.
6. Endodontics errors of maxillary molars.
7. Basic Concept of development defects.
8. Patho physiology of development defects.
9. Local Anesthesia.
10. Operative dentistry & endodontics in medically compromised patient.
11. Surgical endodontic.
12. Customized Radiology.
13. Various types of dental trauma.
14. Restoration of endodontically treated tooth.
15. Canal preparation with rotary system.
16. Endodontic emergencies.

**\* Course Content (Block Wise):**

Block : 5  
 Duration : 6 months (From 1<sup>st</sup> March to 31<sup>st</sup> August)  
 EBA : At the end of the block

**Contents :**

| Academic Part  | Clinical & Training Part   | Research Part             |
|--|--|---------------------------|
| <p><b>2. Specialty Skill :</b><br/>                     1. Applied basics of Operative Dentistry &amp; Endodontics .</p> | <p><b>OPD training:</b><br/>                     1. Diagnosis of odontogenic &amp; non-odontogenic Pain.<br/> <b>Endodontics :</b><br/>                     2. Endodontics Re-Diagnosis of management.<br/> <b>Operative Dentistry:</b><br/>                     1. Advance Operative dentistry.</p> | <p>1. Thesis defense.</p> |

**Syllabus:**

1. Restoration of endodontically treated tooth.
2. Management of endodontically failed teeth.
3. Management of Traumatized tooth.
4. Perioendo lesion.
5. Diagnosis & management of tooth resorption.
6. Recent advancement of rotary system.
7. Indirect restorations (Inlay, Onlay, Lamination, Veneer, crown etc)
8. Recent advancement of direct restorative materials..
9. LSTR.
10. Single versus Multiple visit endodontic.
11. Surgical endodontic.
12. Laser in Operative dentistry & endodontic .
13. Various types of dental trauma & their management.

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**\* Course Content (Block Wise):**

Block : 6  
 Duration : 3 months (From 1<sup>st</sup> September to 30<sup>th</sup> November)  
 EBA : At the end of the block

**Contents :**

| Academic Part   | Clinical & Training Part Research Part   |
|---|--|
| <p><b>1. Specialty Skill :</b></p> <p>1. Applied basics Science of advance Materials used in Operative dentistry &amp; endodontics.</p> | <p><b>1.OPD training:</b></p> <p>1. Advance technology of operative dentistry &amp; Endodontics.</p> |

**Syllabus:**

1. Surgical endodontics.
2. Management of failed endodontics case.
3. LSTR.
4. Endodontic in medically Compromised patient.
5. Laser in Operative dentistry & endodontics.
6. Modification of different cavity preparation.
7. Advance Radiology.
8. Advance Anesthesia
9. Pediatric endodontics
10. Tissue Engineering.
11. Endodontic emergencies
12. Endodontic Mishaps.

**\* Course Content (Block Wise):**

Block - 7 : Preparatory Block  
 Duration : 3 months (From 1<sup>st</sup> December to 28<sup>th</sup> February)  
 : FINAL EXAMINATION