

B.D.S FINAL YEAR
SUBJECT: CONSERVATIVE DENTISTRY AND ENDODONTICS

Teaching Scheme				Credits	Examination Scheme				
Lect	Prac	Clinical	Total		External		Sessional		Total
				Theory	Pract	Theory	Pract		
152	273	370	795	1	1	3	3	8	

A. COURSE OVERVIEW

The graduate should acquire the following knowledge during the period of training.

- To diagnose and treat simple restorative and endodontic treatment.
- To gain knowledge about aesthetic restorative material and endodontic treatment and to translate the same to patient's needs. To carry out simple luxation of tooth and its treatment and to provide emergency endodontic treatment. He should be able to motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasise which will help to maintain the restorative work and prevent future damage..

B. COURSE CONTENT

NO	TOPIC	L+P+C (hrs)	CLs
1	Nomenclature Of Dentition	2+15+5	CL1,3
2	Principles Of Cavity Preparation	4+30+20	CL1,5,6
3	Dental Caries	4+20+30	CL1,2,3,4
4	Treatment Planning For Operative Dentistry	2+0+20	CL1,4,5
5	Gnathological Concepts Of Restoration	2+0+5	CL1,5
6	Armamentarium For Cavity Preparation	2+30+10	CL1,3,4,5
7	Control of Operating Filed:	2+0+7	CL1,2,3,4,5
8	Amalgam Restoration	4+70+20	CL1,4
9	Pulp Protection :	3+30+20	CL1,4,5
10	Anterior Restorations	3+10+13	CL1,2,3,4,5,6
11	Direct Filling Gold Restorations	2+0+15	CL1,6
12	Preventive Measures In Restorative Practice	2+0+2	CL1,3,2,6,
13	Temporisation or Interim Restoration	1+0+5	CL1,2,3,4,5
14	Pin Amalgam Restoration Indication Contra Indication	2+0+5	CL1,4
15	Management Of Deep Carious Lesions Indirect And Direct Pulp Capping	6+5+10	CL1,2,3,4,5,6
16	Non Carious Destruction's Tooth Structures Diagnosis and Clinical Management	3+0+10	CL1,2,3,4,5,6
17	Hyper Sensitive Dentine And Its Management	2+0+5	CL1,2,3,4,5,6,
18	Cast Restorations	5+20+3	CL1,2,4,6
19	Die Materials And Preparation Of Dies	2+0+2	CL1,2,5
20	Gingival Tissue Management For Cast Restoration And Impression Procedures	2+0+2	CL1,3,4
21	Recent Cavity Modification Amalgam Restoration	2+0+15	CL1,4,5
22	Differences between Amalgam And Inlay Cavity preparation with note on all the types of Bewels used for Cast Restoration	2+0+3	CL1,5
23	Control Of Pain During Operative Procedures.	2+0+10	CL1,3,4,6

24	Treatment Planning For Operative Dentistry Detailed Clinical Examination Radiographic Examination	3+0+10	CL1,2,3,4,5,6
25	Vitality Tests, Diagnosis And Treatment Planning And Preparation Of Case Sheet.	4+0+10	CL1,2,3,4,5,6
26	Applied Dental Materials.	2+10+2	CL5
27	Endodontics: introduction definition scope and future of endodontics	4+0+0	CL1,2,3
28	Clinical diagnostic methods	3+0+10	CL1,2,3,4,5,6
29	Emergency endodontic procedures	3+0+3	CL1,2,3,4,5,6
30	Pulpal diseases causes, types and treatment	3+10+10	CL1,2,,3,4,5,6
31	Periapical diseases: acute periapical abscess, acute periodontal abscess phoeix abscess, chronic alveolar abscess granuloma cysts condensing osteits, external resorption	4+0+10	CL1,2,3,4,5,6
32	Vital pulp therapy:	2+0+15	CL1,2,3,4,5,6
33	Apexogenesis and apexification or problems of open apex	2+0+3	CL1,4,5,
34	Rationale of endodontic treatment	4+0+5	CL1,2,4,5
35	Principles of root canal treatment mouth preparation root canal instruments, hand instruments, power driven instruments, standardisation color coding principle of using endodontic instruments. Sterilisation of root canal instruments and materials rubber dam application.	5+20+3	CL1,2,3,4,5,6
36	Anatomy of the pulp	3+0+3	CL1,2,3,4,5
37	Preparation of root canal space	3+0+3	CL1,2,3,4,5,6
38	Disinfection of root canal space	3+0+3	CL1,2,3,4,5,6
39	Problems during cleaning and shaping of root canal spaces	3+0+5	CL1,5,6
40	Methods of cleaning and shaping	4+0+3	CL1,5,6
41	Obturation of the root canal system	2+0+3	CL1,5,6
42	Root canal sealers. Ideal properties classification	2+0+3	CL1,5,6
43	smear layer	3+0+3	CL1,4
44	discoloured teeth.	5+0+3	CL1,4,5,6
45	traumatised teeth classification of fractured teeth.	5+0+5	CL1,2,3,4,5,6
46	endodontic surgeries indication contraindications	3+0+5	CL1,2,3,4,5,6
47	root resorption.	3+0+2	CL1,4,5
48	emergency endodontic procedures	2+0+2	CL1,2,3,4,5,6
49	lasers in conservative endodontics (i	1+0+2	CL1,5,6
50	professional association dentist act 1948 and its amendment 1993	1+0+1	CL1
51	duties towards the govt. Like payments of professional tax, income tax.	1+0+1	CL1
52	financial management of practice	2+0+1	CL1
53	dental material and basic equipment management	2+5+2	CL1
54	Ethics	2+3+2	CL1

C. TEXT BOOKS

D. REFERENCE BOOKS

1. Scharer & others; Esthetic guidelines for restorative dentistry, 1st edition, Quintessence Publishing Co Inc., 1982.
 2. Chiche & Pinault; Esthetics of anterior fixed prosthodontics, 1st edition, Quintessence Publishing Co Inc., 1994.
 3. Mc Namara; Esthetic & the treatment of facial form, Vol 28, Centre for human growth and development, University of Michigan, 1992.
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 2. Chiche & Pinault; Esthetics of anterior fixed prosthodontics, 1st edition, Quintessence Publishing Co Inc., 1994.
 3. Mc Namara; Esthetic & the treatment of facial form, Vol 28, Centre for human growth and development, University of Michigan, 1992

E. COMPETENCY LEVEL

CL Number	Skill	Statement
CL1	Knowledge	<ul style="list-style-type: none">• Should have knowledge to diagnose all carious lesions.• Understand the principles of aesthetic dental procedures.
CL2	Investigations	<ul style="list-style-type: none">• Competent to take intra-oral radiographs and interpret the radiographic findings and adequate knowledge about common laboratory investigations and interpretation of their results
CL3	Patient Care: Diagnosis	<ul style="list-style-type: none">• Able to diagnose all carious lesions.
CL4	Patient Care: Treatment planning	<ul style="list-style-type: none">• Ethically Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information
CL5	Patient Care: Treatment	<ul style="list-style-type: none">• Competent to perform Class I and Class II cavities and their restoration with amalgam , class V and Class III cavities with glass ionomer cement, ,small composite restorations.• Carry out pulp capping procedures and RCT for anterior teeth
CL6	Research and Innovation	<ul style="list-style-type: none">• Upgradation of knowledge and skill from time to time, familiarize with new concept and equipment in conservative dentistry and endodontics.
CL 7	Evidence Based Learning	<ul style="list-style-type: none">• Consolidate all the above mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of CONSERVATIVE DENTISTRY AND ENDODONTICS

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1	KNOWLEDGE	<ul style="list-style-type: none"> Gain knowledge about restorative and endodontic material and treatment.
PSO2	INVESTIGATIONS	<ul style="list-style-type: none"> Competent to take intra-oral radiographs and interpret the radiographic findings and adequate knowledge about common laboratory investigations and interpretation of their results
PSO3	TREATMENT	<ul style="list-style-type: none"> Manage treatment of simple restorative, endodontic and esthetic treatment.

F. COURSE MATRIX

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PS O1	PS O2	PS O3
CL1	3	2	3	2	2	3	2	3	3	2	3	3	3	3	3	3	2	2
CL2	3	2	2	3	2	3	2	3	3	2	3	3	3	3	3	3	3	2
CL3	2	2	3	3	2	3	3	3	3	2	3	3	3	3	3	3	2	2
CL4	3	2	2	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3
CL5	3	2	3	2	3	3	2	3	3	2	3	3	3	3	3	3	3	3
CL6	3	2	3	3	2	3	2	2	3	3	3	3	3	3	3	3	2	2
CL7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg	2.9	2.1	2.7	2.7	2.3	3.0	2.3	2.9	3.0	2.4	3.0	3.0	3.0	3.0	3.0	3.0	2.6	2.4