

B.D.S FINAL YEAR
SUBJECT: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

Teaching Scheme				Credits	Examination Scheme				
Lect	Prac	Clinical	Total		External		Sessional		Total
					Theory	Pract	Theory	Pract	
78	-	370	448		1	1	3	3	8

A. COURSE OVERVIEW

Undergraduate programme in Orthodontics is designed to enable the qualifying dental surgeon to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures.

B. COURSE CONTENT

NO	TOPIC	L+C (hrs)	CLs
1	Introduction, Definition, Historical Background, Aims And Objectives Of Orthodontics And Need For Orthodontics Care.	3+10	CL1
2	Growth And Development	3+8	CL1
3	Morphologic Development Of Craniofacial Structures.	3+8	CL1
4	Functional Development Of Dental Arches And Occlusion	4+8	CL1,2
5	Clinical Application Of Growth And Development	3+8	CL1,2,3
6	Malocclusion - In General	3+8	CL1,2,3
7	Classification of Malocclusion	3+8	CL1,3
8	Normal And Abnormal Function Of Stomatognathic System	2+8	CL2,3,4,5
9	Etiology Of Malocclusion	4+8	CL1,3
10	Diagnosis And Diagnostic Aids	3+8	CL2,3,4,5
11	General Principles In Orthodontic Treatment Planning Of Dental And Skeletal Malocclusions	3+8	CL1,3
12	Anchorage In Orthodontics	3+25	CL4,5,6
13	Biomechanical Principles In Orthodontic Tooth Movement	4+20	CL1,2,4,5
14	Preventive Orthodontics	3+25	CL5
15	Interceptive Orthodontics	3+25	CL2,5
16	Corrective Orthodontics	3+25	CL2,4,5,6,
17	Orthodontic Appliances: General	4+25	CL4,5
18	Ethics	2+10	CL5
19	REMOVABLE ORTHODONTIC APPLIANCE	4+50	CL2,4,5
20	FIXED ORTHODONTIC APPLIANCES	2+8	CL2,4,5,6
21	EXTRAORAL APPLIANCES	3+8	CL4,5
22	MYOFUNCTIONAL APPLIANCES	3+9	CL2,3,4,5,
23	Orthodontic Management Of Cleft Lip And Palate	3+10	CL2,4,5
24	Principles Of Surgical Orthodontics	2+10	CL2,4,5
25	Principle, Differential Diagnosis & Methods Of Treatment	4+10	CL2,3,4,5
26	Retention And Relapse	3+10	CL5

C. TEXT BOOKS

D. REFERENCE BOOKS

1. William R. Proffit ;Contemporary Orthodontics, 6th edition,Mosby,2018.
2. White And Gardiner ;Orthodontics For Dental Students, 2nd edition, OUP India,1999.
3. Moyers; Handbook Of Orthodontics, 4th revised edition, Mosby, 1988.
4. Graber; Orthodontics - Principles And Practice, 4th edition, Elsevier,2009.
5. Philip Adams; Design, Construction And Use Of Removable Orthodontic Appliances, 5th edition, Butterworth-Heinemann Ltd., 1984.
6. Salzmann ; Clinical Orthodontics: Voll & 2, Lippincott Williams and Wilkins, 1974.

E. COMPETENCY LEVEL

CL Number	Skill	Statement
CL1	Knowledge	<ul style="list-style-type: none">• Should have knowledge to diagnose the various malocclusion categories• Understand about normal growth and development of facial skeleton and dentition
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">• Diagnose and appropriately refer patients with complex malocclusion to the specialist
CL4	Patient Care: Treatment planning	<ul style="list-style-type: none">• Pinpoint operations in growth process both dental and skeletal and plan necessary treatment
CL5	Patient Care: Treatment	<ul style="list-style-type: none">• Ethically plan and execute preventive and interceptive orthodontic• Manage treatment of simple malocclusion such as anterior spacing using removable appliances• Handle delivery and activation of removable orthodontic appliances
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. orthodontics & dental orthopaedics
CL7	Evidence	<ul style="list-style-type: none">• Consolidate all the above mentioned major competencies

	Based Learning	acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS
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PROGRAM SPECIFIC OUTCOME(PSO)

PSO1	DIAGNOSIS AND TREATMENT PLANNING	<ul style="list-style-type: none"> Should have knowledge to diagnose the various malocclusion categories
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 malocclusion such as anterior spacing using removable appliances
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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	3	2	2	2	2	2	2	2	2	3	2	2	2	2	3	2	2
CL2	3	2	3	2	2	3	2	2	3	3	3	3	3	3	3	3	3	2
CL3	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2
CL4	2	2	2	3	2	2	2	2	2	3	2	2	3	2	2	3	3	3
CL5	2	2	3	3	2	3	3	3	3	3	2	1	3	3	3	3	3	3
CL6	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	3	2	2
CL7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg	2.4	2.1	2.3	2.3	2.0	2.3	2.1	2.3	2.3	2.4	2.3	2.1	2.4	2.3	2.3	3.0	2.6	2.4