



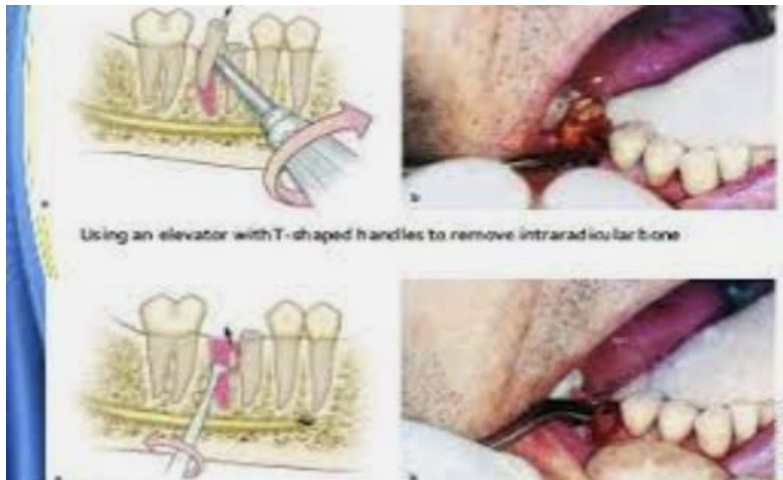
DENTAL COLLEGE HITEC-IMS

Study Guide Y4 - T2 - D22

Term 2

Final Year BDS

Coordinator: Prof. Dr. Beenish Qureshi



“Medical education does not exist to provide students with a way of making a living but to ensure the health of the community.”

Rudolf Virchow

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List of Abbreviations

CBL	Case Base Learning
EECS	Early Exposure to Clinical Skills
EOT	End of Term Examination
FGD	Focus Group Discussion
LGIF	Large Group Instructional Format
LGIS	Large Group Interactive Session
MCQ	Multiple Choice Question
MIT	Mode of Information Transfer
NUMS	National University of Medical Sciences
OMFS	Oral & Maxillofacial Surgery
OSCE	Objectively Structured Clinical Examination
OSPE	Objectively Structured Practical Examination
PMC	Pakistan Medical Commission
SAQ	Short Answer Question
SDL	Self-Directed Learning
SEQ	Structured Essay Questions
SGD	Small Group Discussion
TOS	Table of Specification
WFME	World Federation of Medical Education



NUMS Vision

The vision of the National University of Medical Sciences is to improve the quality of life through education, research, innovation, and healthcare, thereby contributing to endeavors to make Pakistan and this world a better place to live in.

Institutional Vision

Leading advancement in Oral & Dental health through excellence in education, patient care and research

Institutional Mission

To serve the local and global communities by producing competent, ethical, socially responsible, research oriented and life long learning oral health care professionals

Term Committee

Coordinator: Professor Dr. Beenish Qureshi

HoD Operative Dentistry, Contact No: 0333-4368332

S.No.	Name	Designation	Departments	Contact Number
1	Dr Rai Tariq	Professor / Vice Principal	Community Dentistry	0333-5718658
2	Dr Waheed Ullah	Professor / Dean Clinical Sciences / HoD	Orthodontics	0333-5206136
3	Dr Beenish Qureshi	Professor / HoD	Operative Dentistry	0333-4368332
4	Dr Aamir Rafique	Associate Professor / HoD	Prosthodontics	0334-4353578
5	Dr Maimoona Siddique	Assistant Professor / HoD	OMFS	0333-2173509
6	Dr Faizan Munir	Assistant Professor / HoD Dental Education	Dental Education	0334-0031031
7	Sana Irfan	Student	Final Year	0333-5335466
8	Tassawar Hussain	Student	Final Year	0304-0150250

Curriculum Overview/Implementation

1. Preface

The curriculum meets the standards of the Pakistan Medical Commission, the Higher Education Commission of Pakistan, and the World Federation of Medical Education, so that our students, on completion of the program, have the required competencies as defined worldwide in a graduate doctor.

2. Model

The curriculum of Dental College HITEC-IMS is based on a traditional discipline-based model of educational strategies. Nevertheless, we have incorporated some elements of SPICES model student-centred, integrated, community-oriented and systematic aspects. As a result, our curriculum has evolved, considering traditional, experiential, behavioural, and constructivist perspectives of curricula.

3. Organisation

The curriculum is organised and integrated along important vertical and horizontal dimensions. The content taught is integrated concurrently in the horizontal organisation and vertically across the years of BDS program. The course of the final year is divided into three terms. In each term, the sequencing of the content is logical and integrated. Research methodology and professionalism will be inculcated as part of the longitudinal theme.

4. Teaching Strategies

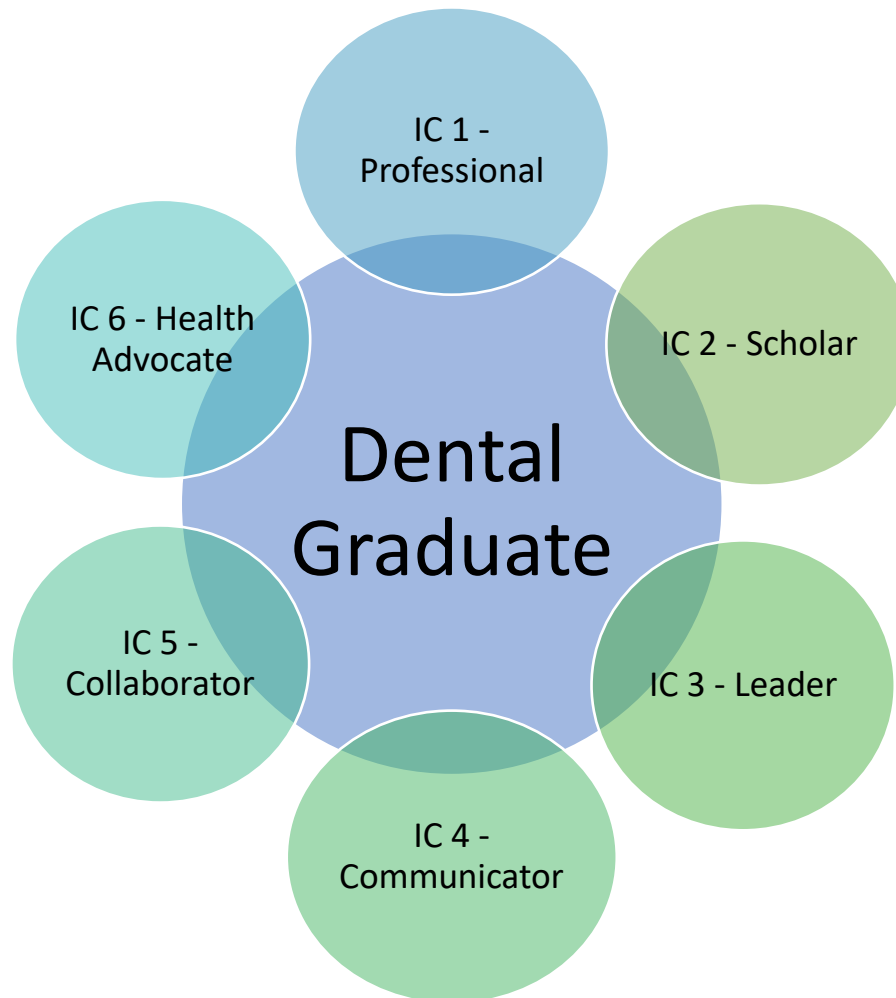
This curriculum aims to improve doctors' clinical skills, including communication, leadership, management, research skills, ethical values and professionalism. BDS final year deals with the clinical subjects of Operative Dentistry, Orthodontics, Prosthodontics and Oral & Maxillofacial Surgery to learn and develop clinical skills. In addition, clinical exposure is ensured, which helps them learn real-life clinical scenarios and implement the skills learnt during the academic session.

Multiple teaching strategies are used. First, LGIS are used to provoke thought and understanding among students. These help to understand topics which need effort including basic sciences review along with updated research, and best evidence medical information. Second, we are teaching clinical implications of each topic giving learning experience that is contextual, realistic, and relevant. Third, small group discussions encourage students to learn socially and discuss their concepts to refine their schemas.

5. Assessment

Constructive feedback is provided via formative assessments by assignments, presentation, CBL and class tests. The students are summatively assessed by term and pre annual examinations at the end of the academic year according to the standards outlined by NUMS.

Institutional Competency Framework



Alignment of Term Outcomes with Institutional Competencies

S. No.	Term Outcomes	Institutional Competencies
1.	Relate and implement the knowledge of sterilisation & cross-infection protocol in relevant clinical scenarios in the dental operatory	IC 1, IC 6
2.	Correlate the aetiology of oral diseases with applying knowledge, interception & management in relevant clinical conditions	IC 1 to IC 6
3.	Apply the concepts of occlusion in the development of dentofacial problems, orthodontic, restorative, and prosthetic management	IC 1 to IC 6
4.	Correlate the clinical presentation of dentate & edentulous patients with the application of principles of surgical practice and restorative management	IC 1 to IC 6
5.	Recognise a medical emergency in the dental setting and apply the knowledge of prevention & management in clinical departments	IC 1 to IC 6
6.	Apply the principles of research for writing research proposals	IC 1, IC 2, IC 4

Yearly Clinical Rotation Schedule

FINAL YEAR BDS SESSION 2022-23

Rotation (7th February to 5th June)

DURATION	7th February to 6th March (4 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	A	B	C	D

DURATION	7th March to 3rd April (4 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	D	A	B	C

DURATION	4th April to 1st May (4 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	C	D	A	B

DURATION	9th May to 5th June (4 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	B	C	D	A

2nd Clinical Rotation (6th June to 12th November)

DURATION	6th June to 25th June & 18th July to 31st July (5 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	A	B	C	D

DURATION	1st August to 4th September (5 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	D	A	B	C

DURATION	5th September to 9th October (5 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	C	D	A	B

DURATION	10th October to 12th November (5 weeks)			
DEPARTMENT	Operative Dentistry	Prosthodontics	Orthodontics	OMFS
GROUP	B	C	D	A

GROUP A: Roll # 1-12

GROUP B: Roll# 13-24

GROUP C: Roll# 25-36

GROUP D: Roll# 37-47

Assessment

Types and Schedules



Assessment is continuous in the form of class tests, departmental assignments and practical tests. Continuous assessment is separate from the Term exam.

Formative assessment includes tests/written assignments, presentations and feedback to the student during the teaching time. The purpose of formative assessment is to provide feedback to the students for improvement and to teachers to identify areas where students need further guidance.

From the 4th week onwards, the class tests of Operative Dentistry, Prosthodontics, Orthodontics, and OMFS will be held on rotation basis. During the 12th week, the end-of-term exam will be taken. The EOT exam will comprise of theory and practical separately. All these will form part of summative assessment, along with pre-annual exams. This will contribute towards internal assessment.

Students must secure 50% marks in theory and practical exams separately, per university criteria.

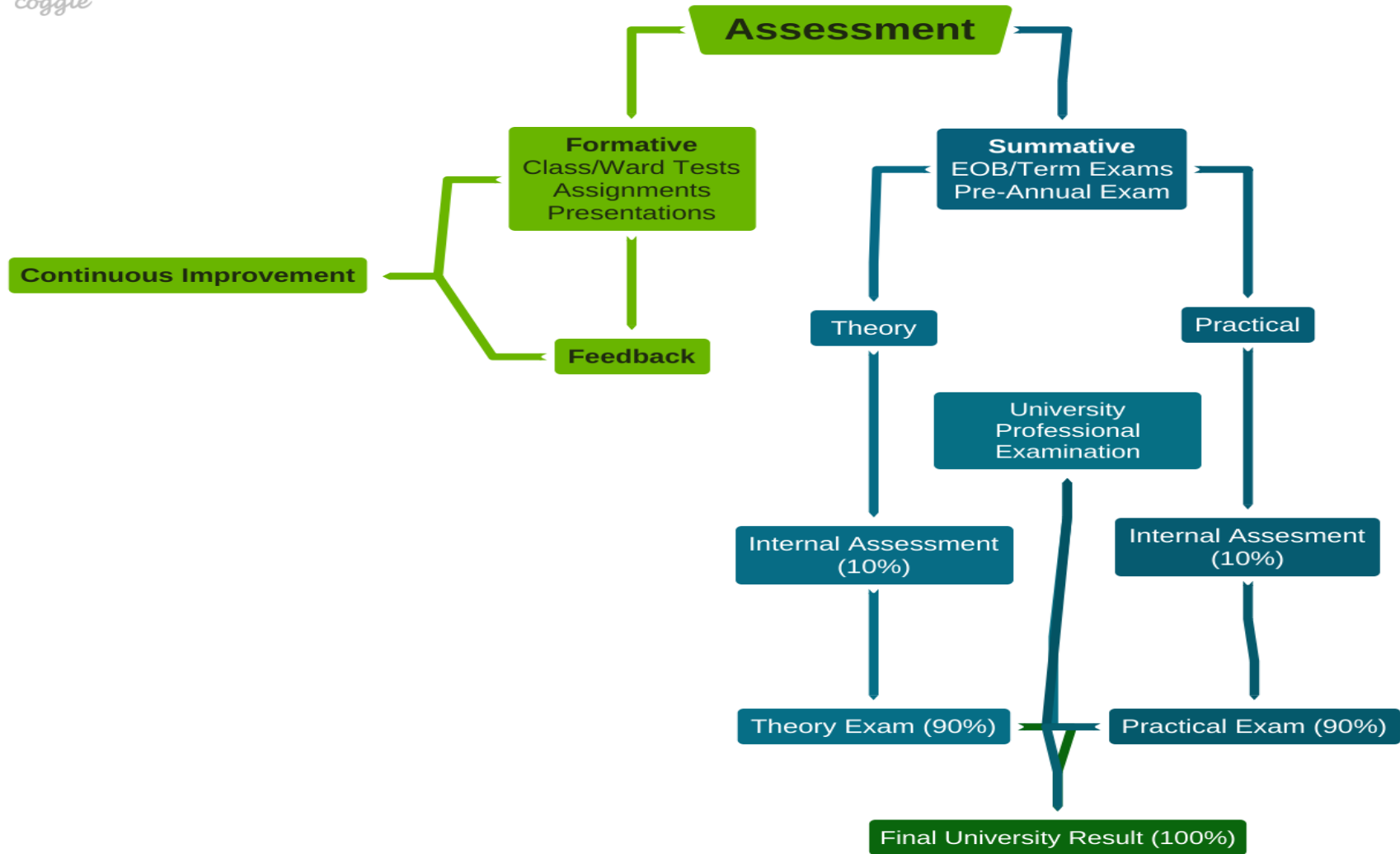
The student who fails the end-of-term exam will be allowed to attend the next term; however, his/ her internal assessment will be affected accordingly.

Internal assessment criteria for submission of internal assessment marks of final Professional Examination NUMS:

1. The weightage of internal assessment shall be 10% or ten marks for a 100 marks Paper in the annual examination.
2. End-of-term examination / practical quota, pre-annual examination and accumulative attendance shall contribute toward internal assessment.

Standard Assessment Map

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Academic Calendar

Final Year BDS CLASS-2022

Academic Event	Duration
Commencement of new academic year	7th February 2022 Start of Session
First-term—12Weeks	7 th February 22 to 30 th April 22
Sports week	28 th March to 31 st March 25 th April to 29 th April 1 st term exam
Eid ul Fitr holidays 1 Week	1 st May 22 to 8 th May 22
Second term --12 Weeks + 3 Weeks	9 th May 22 to 19 th August 22
Academics 7/12	9-5-22 to 24-6-22
Summer break + Eid ul Adha holidays	25 th June 22 to 17 th July 22
Academics 5 /12 Second Term exams	18-7-22 to 21-8-22
Third term---12 Weeks	22 nd August 22 to 11 th November 22
Academics 12/12	22-8-22 to 11-11-22

Prep Leaves for Send up exam—1 Week	12-11-22 to 20-11-22
Send up/ Pre prof exam--- 2 Weeks	21-11-22 to 2-12-22
Prep Leaves for Prof---- 3 Weeks	3-12-22 to 25-12-22
Final professional exam	26-12- 22 As proposed by NUMS

Sample Timetable

Final year BDS (2022-2023)
Weekly Time Table (07th Feb 2022 to 11th Feb 2022)
DENTAL COLLEGE HITEC-IMS

DAY/DATE	8:30 – 9:15	9:15 – 10:00	10:00 -10:20	10:20 – 3:30		
MONDAY 07-02-22	Operative Dentistry Orientation and intro to Operative Dentistry (Dr. <u>Beenish</u>)	Prosthodontics Orientation & intro to FPD (Dr. <u>Aamir</u>)	Break	CLINICS		
TUESDAY 08-02-22	Orthodontics Orientation and Intro to orthodontics (Dr. <u>Waheed</u>)	OMFS Orientation and Exodontia (Dr. <u>Maimoona</u>)		GROUP-A (Operative Dentistry) <ul style="list-style-type: none"> Orientation to dept, chair positioning History taking & clinical examination Clinical quota 		
WEDNESDAY 09-02-22	Prosthodontics Systemic health consideration in CD patient (Dr. <u>Sameen</u>)	Operative Dentistry Infection control (Dr. <u>Beenish</u>)		GROUP-B (Prosthodontics) <ul style="list-style-type: none"> Crown preparation 		
THURSDAY 10-02-22	OMFS Exodontia (Dr. <u>Maimoona</u>)	Orthodontics Intro to orthodontics (Dr. <u>Waheed</u>)		GROUP-C (Orthodontics) <ul style="list-style-type: none"> History and Clinical examination 		
FRIDAY 11-02-22	Prosthodontics History taking & medical exam (Dr. <u>Aamir</u>)	Operative Dentistry Infection control (Dr. <u>Beenish</u>)		GROUP-D (OMFS) <ul style="list-style-type: none"> Orientation to dept, chair positioning History taking & clinical examination Pre –perioperative patient evaluation 		
			10:20-1:00	1:00-2:00	2:00-3:30	
			<u>Clinics</u>	<u>Jumma Break</u>	Small Group Discussion/CBL Diagnosis and treatment planning CPD designing Patient evaluation Macro-esthetics	

Group: A Roll # 1-12; **Group: B** Roll # 13-24; **Group: C** Roll # 25-36; **Group: D** Roll # 37-47

Dr. Beenish Qureshi

Dr. Waheed Ullah

Vice Principal

Dr. Aamir Rafique

Principal

Dr. Mudassar Saleem

Term – II
Practice Based Learning

Structured Summary – Term II

Term Code	Y4-T2-D22
Term Title	Practice Based Learning
Duration Of Term	12 weeks
Important Dates	9 th May 2022 – 21 st August 2022
Horizontally Integrated Themes	<ol style="list-style-type: none"> 1. Dental traumatology 2. Surgical Endodontics 3. Space Management
Vertically Integrated Themes	<p>Research Methodology</p> <p>Communication Skills*</p> <p>Professionalism*</p>
Prerequisite Blocks	First Term Final Year

*These themes are taught via MITs of clinical rotations, SGD's, CBL's and role modelling in clinical years via practical and role playing in basic sciences

Tentative Exam Schedule¹
Final Year BDS – 2nd term -2022

Theory exam schedule:

DATE/DAY	SUBJECT	TIME
15 th August 22 / Monday	Operative Dentistry	8:45am to 11:45am
16 th August 22 / Tuesday	Orthodontics	8:45am to 11:45am
18 th August / Thursday	Prosthodontics	8:45am to 11:45am
19 th August 22 / Friday	OMFS	8:45am to 11:45am

Practical exam schedule:

The exit exam at the end of each rotation from each department will be counted as practical exam of second term.

¹ This is a tentative schedule. Therefore, it is subject to change.

Learning Outcomes for Term II

1. Operative Dentistry

S. No.	Topic	Learning Outcomes	Learning Objectives	IC CODES	MIT	Assessment Tool
1.	Introduction to Endodontics	At the end of session, student will be able to: <ul style="list-style-type: none"> Demonstrate the scope & rationale of endodontic treatment 	At the end of lecture, student will be able to: Knowledge <ul style="list-style-type: none"> Define Endodontics Describe Scope of endodontics Define rationale for treatment Describe objective of endodontic treatment 	IC 2	LGIS	MCQs/Viva
2.	Tooth morphology & access cavity preparation	<ul style="list-style-type: none"> Execute all the stages of endodontic treatment using conventional and contemporary techniques Appropriately seal and protect root canal treated teeth before discharge of the patient 	Knowledge <ul style="list-style-type: none"> Define objectives of access opening Describe working length determination 	IC2	LGIS	MCQs/SEQs/Viva
			Skill <ul style="list-style-type: none"> Use of rubber dam isolation Endodontic access preparation and length 	IC 1 to IC 6	Demonstration Practical	OSCE

		<ul style="list-style-type: none"> Implement suitable recall schedules and plan further therapy when required 	determination on extracted teeth and on patients			
			<u>Attitude</u> <ul style="list-style-type: none"> Explain procedure to the patient Avoid iatrogenic damage during endodontic access 	IC 1 to IC 6	Demonstration	OSCE
3.	Preparation of radicular pulp space irrigants & antiseptics intracanal medicaments	<ul style="list-style-type: none"> Describe the role, properties and techniques for irrigation 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe the rationale for chemo-mechanical preparation of canals Define cleaning and shaping techniques Describe Irrigants Define the role of intracanal medicaments 	IC 2	LGIS / SGD / CBL	MCOs/SEQs
			<u>Skill</u> <ul style="list-style-type: none"> Use different temporary restorations Perform cleaning and shaping of extracted teeth and then on patients 	IC 1 to IC 6	Demonstration Practical	OSCE
			<u>Attitude</u>	IC 1	Demonstration	OSCE

			<ul style="list-style-type: none"> Follow a careful approach to avoid procedural accidents 			
4.	Obturation	<ul style="list-style-type: none"> Discuss the objectives and techniques of obturation Perform obturation on patient 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the objectives of obturation Identify when to obturate the canal Enumerate the obturation techniques Enlist the ideal properties of obturating materials and sealers 	IC 2	LGIS / SGD / CBL	MCOs/ SEQs/Viva
			<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform obturation on extracted teeth and on patients 	IC 1 IC 3 IC 4 IC 5 IC 6	Demonstration Practical	OSCE
			<p><u>Attitude</u></p> <ul style="list-style-type: none"> Treat all patients with dignity and respect 	IC 1 IC 6	Demonstration Practical	OSCE
5.	Space management	<ul style="list-style-type: none"> Discuss space issues in children and formulate a suitable treatment plan for its management 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss causes of premature loss of primary teeth 	IC 2 IC 6	LGIS	MCOs

			<ul style="list-style-type: none"> Formulate a treatment plan for space management 			
6.	Surgical Endodontics	<ul style="list-style-type: none"> Discuss surgical endodontic treatment modalities 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Define endodontic surgery Enlist different surgical endodontic treatment modalities Discuss the procedure of incision for drainage Recall importance of biological aspects of the oral and peri-oral structures 	IC 2 IC 6	LGIS	MCOs/SEQ/Viva
7.	Traumatic Dental Injuries	<ul style="list-style-type: none"> Evaluate and manage dental trauma Communicate effectively with medical and dental specialists to safeguard patient safety and ensure continuity of care Explain the need for clear and effective 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Classify dental traumatic injuries Identify dental traumatic injuries Describe immediate and long-term management of dental traumatic injuries 	IC 2	LGIS / SGD	MCOs/SEQs
			<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform emergency treatment and provide supportive care, 	IC1 to IC6	Practical / Demonstration	OSCE

		communication with patients and their parents/guardians where children are involved	prevention, and maintenance under supervision			
			<p><u>Attitude</u></p> <ul style="list-style-type: none"> Act ethically in seeking the best interdisciplinary care for patients Manage young patients with confidence and efficiency 	IC1 to IC6	Demonstration	OSCE
8.	Endodontic-Periodontic interrelationship	<ul style="list-style-type: none"> Discuss the importance and implications of the inter-relationship between Endodontics and other clinical disciplines, particularly periodontics 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Recall different types and clinical features of endo-perio lesion Diagnose endo-perio lesions on the basis of signs and symptoms and radiographic interpretation 	IC 2	LGIS / SGD / CBL	MCQs/SEQs/Viva
			<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform periodontal probing 	IC1 to IC6	Demonstration Practical	OSCE
			<p><u>Attitude</u></p> <ul style="list-style-type: none"> Demonstrate ethical outlook in treatment 	IC 1	Demonstration Practical	OSCE

			planning and patient communication			
9.	Restoration of endodontically treated teeth	<ul style="list-style-type: none"> Apply knowledge of post application to restore endodontically treated teeth 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Define the structural and esthetic considerations for root filled teeth Describe different types of posts Outline the restoration design teeth 	IC 2	LGIS	MCQs
			<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform restoration of endodontically treated 	IC1 to IC6	Practical / Demonstration	OSCE
			<p><u>Attitude</u></p> <ul style="list-style-type: none"> Treat all patients with dignity and respect 	IC1 to IC6	Demonstration Practical	OSCE

Practical

S. No.	Topic/Theme	Learning Objective	IC CODES	MIT	Assessment Tools
1.	Endodontic instruments and procedures	<ul style="list-style-type: none"> Identify instrument design, function and formula Perform canal preparation techniques Perform obturation techniques and procedures 	IC 1 to IC 6	Demonstration	OSCE/Practical/ Viva
2.	Therapeutics and Anesthetics	<ul style="list-style-type: none"> Manage pain effectively and appropriately Diagnose, medicate and carry out procedures Communicate indications and contraindications and interaction of drugs Use intracanal medicaments uses and application 	IC 1 to IC 6	Demonstration/ Clinical quota	OSCE/Practical/ Viva
3.	Radiographs & radiographic interpretation	<ul style="list-style-type: none"> Discuss the importance and limitations of radiography in endodontics Identify endodontic pathology on radiographs Identify pathological structures in periapical radiographs Practice technique for taking different periapical radiographs Implement safety measures 	IC 1 to IC 6	Demonstration	OSCE/Practical/ Viva

4.	Emergency management	<ul style="list-style-type: none"> • Manage trauma and inter-appointment emergencies • Manage a case of cracked tooth • Identify perforations in teeth • Manage a case of perforations 	IC 1 to IC 6	Demonstration	OSCE/Practical/ Viva
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2. Prosthodontics

S. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	Materials Used In Management Of Edentulous Patients	<p>At the completion of the session, the students should be:</p> <ul style="list-style-type: none"> • Identify and manipulate various dental materials used in fabrication of dentures 	<p>At the completion of the session, the students should be able to:</p> <p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe non-elastic and elastic impression materials • Describe disinfection protocols for various impression materials • Describe the polymeric denture base material • Describe injection moulding technique • Explain significance of modified resin base materials • Describe materials used in the fabrication of prosthetic teeth 	IC 2	LGIS	MCQs, SEQs & VIVA

			<ul style="list-style-type: none"> • Compare the properties of porcelain and resin teeth • Describe denture lining materials • Enlist indications of tissue conditioners • Describe cast metal alloys used as denture base materials • Describe various types of denture cleansers • Describe adverse reactions to denture cleansers • Enlist indications and contraindications for denture adhesives • Describe adverse reactions to denture adhesives • Describe factors that contribute to the retention of dentures 			
2.	Maxillary and mandibular substitutes for denture bearing area	<ul style="list-style-type: none"> • Correlate the significance of anatomical landmarks of maxilla and mandible with respect to biomechanics of a complete denture and for better 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Recall maxillary and mandibular stress bearing areas • Describe the supporting structures in maxilla and mandible • Describe limiting structures in maxilla and mandible 	IC 2	LGIS SGD	MCQs, SEQs &VIVA

3.	Impression	<ul style="list-style-type: none"> Explain impression making in edentulous patients 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Enumerate objectives of impression making Describe preliminary impressions with respect to tray selection, material choice and technique Describe secondary impressions with respect to tray selection, material choice and technique Describe theories of impression making Describe the objectives and sequence of border molding 	IC 2	LGIS SGD	MCQs/ SEQs & VIVA
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> Perform primary and secondary impression making using different impression materials and following border molding procedures 	IC1 IC6	Clinical Demonstrations	OSCE
			<p><u>ATTITUDE</u></p> <ul style="list-style-type: none"> Display a clear and respectful attitude in giving instructions for physiologic border molding 	IC 1 IC 4	Clinical Demonstrations	OSCE

4.	Posterior palatal seal	<ul style="list-style-type: none"> Record posterior palatal seal 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Define posterior palatal seal area Describe various methods used to record posterior palatal seal area 	IC 2	LGIS SGD	MCQs SEQs & VIVA
			<u>SKILL</u> <ul style="list-style-type: none"> Record posterior palatal seal using low fusing compound 	IC 1 to IC 6	Clinical Demonstrations	OSCE
			<u>ATTITUDE</u> <ul style="list-style-type: none"> Display clear and respectful attitude in giving instructions 	IC 1 IC 4	Clinical Demonstrations	OSCE
5.	Boxing after impression making	<ul style="list-style-type: none"> Discuss beading and boxing after impression making 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Define boxing of an impression Define dental cast Differentiate between various types of cast Describe the method for fabrication of custom tray 	IC 2	LGIS SGD	MCQs/ SEQs
			<u>SKILL</u> <ul style="list-style-type: none"> Perform beading and boxing of secondary impression using modelling wax Fabricate primary and secondary cast using dental stone Fabricate custom tray using autopolymerizing resins for secondary impression making 	IC 1 to IC 6	Clinical Demonstrations	OSCE

6.	Denture's Polished Surfaces	<ul style="list-style-type: none"> Describe different surfaces and parts of denture 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Define various parts and surfaces of dentures Describe the method for the fabrication of record bases 	IC 2	LGIS SGD	MCQs/ SEQs
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> Fabricate record bases on master cast 	IC 1 to IC 6	Clinical Demonstrations	OSCE
7.	Neutral zone	<ul style="list-style-type: none"> Discuss the concept of Neutral zone 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Define neutral zone Explain significance of neutral zone in complete dentures 	IC 2	LGIS SGD	MCQs / SEQs & VIVA
8.	Jaw Relation	<ul style="list-style-type: none"> Record maxillomandibular relationship 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Define jaw relations Describe various methods used to record vertical and horizontal jaw relations Define vertical dimension of rest, vertical dimension of occlusion and inter-occlusal distance Define centric relation Describe significance of centric relation in jaw relation record Enlist effects of increased and decreased vertical dimension of occlusion 	IC 2	LGIS SGD	MCQs/ SEQs

			<p><u>SKILL</u></p> <ul style="list-style-type: none"> • Accurately record the vertical dimension and centric relation of edentulous patients 	IC1 to IC6	Clinical Demonstrations	OSCE
			<p><u>ATTITUDE</u></p> <ul style="list-style-type: none"> • Display a kind and respectful attitude 	IC 1 IC 4	Clinical Demonstrations	OSCE
9.	Articulators and facebow	<ul style="list-style-type: none"> • Use articulators and facebow used for prosthodontic work 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Classify articulators • Enumerate advantage and disadvantages of semi-adjustable articulators • Differentiate between ARCON and NON-ARCON articulators • Describe programming of an articulator • Define facebow • Describe the procedure for recording orientation relation using a facebow • Enlist advantages and indications of a facebow 	IC 2	LGIS SGD	MCQs/ SEQs/ VIVA
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> • Demonstrate the procedure for mounting of casts on articulator 	IC 1 to IC 6	Clinical Demonstrations	OSCE
10.	Selection and Arrangement of	<ul style="list-style-type: none"> • Discuss selection of teeth and their arrangement 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe various theories for selection of artificial teeth 	IC 2	LGIS SGD	MCQs SEQs

	Prosthetic teeth	using biometric guidelines	<u>SKILL</u> <ul style="list-style-type: none"> Demonstrate the selection of teeth based on patients requirement 	IC 1 to IC 6	Clinical demonstration	OSCE
		<ul style="list-style-type: none"> Practice the correct arrangement of teeth 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Enlist landmarks for complete denture teeth setup Describe anterior tooth setup for maxilla and mandible Describe posterior tooth setup for maxilla and mandible 	IC 2	LGIS SGD	MCQs/ SEQs
			<u>SKILL</u> <ul style="list-style-type: none"> Practice the arrangement of maxillary and mandibular anterior and posterior teeth following the records and biometric guidelines 	IC 1 to IC 6	Clinical demonstration	OSCE
11.	Occlusion	<ul style="list-style-type: none"> Discuss occlusal concepts for complete dentures 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Explain various occlusal concepts for complete denture occlusion 	IC 2	LGIS SGD	MCQs/ SEQs/ VIVA
REMOVABLE PARTIAL DENTURE						
12.	Diagnosis and	<ul style="list-style-type: none"> Diagnose and plan treatment for patients requiring 	<u>KNOWLEDGE</u>	IC 2	LGIS	MCQs/

	Treatment Planning in RPD	removable partial dentures	<ul style="list-style-type: none"> • Enumerate objectives of prosthodontic treatment • Enlist indications for removable partial dentures • Enlist steps involved in diagnosis of a patient prosthodontic treatment options • Describe factors that affect prosthesis selection • Enlist the available prosthodontic treatment options 		SGD	SEQs/ VIVA
		<ul style="list-style-type: none"> • Describe preparation of mouth for removable partial dentures 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe oral surgical preparation for removable partial denture patient • Describe conditioning of abused and irritated oral tissues 	IC 2	LGIS	MCQs/ SEQs/ VIVA
13.	Clasp-Retained Partial Denture	<ul style="list-style-type: none"> • Differentiate between tooth-supported and tooth & tissue supported partial dentures 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Differentiate between tooth supported and tooth & tissue supported partial dentures • Describe six phases of partial denture service 	IC 2	LGIS	MCQs/ SEQs/ VIVA

			<ul style="list-style-type: none"> • Enlist reasons of failure of clasp retained partial dentures 			
14.	Partially Edentulous Arches	<ul style="list-style-type: none"> • Classify partially edentulous arches using Kennedy's classification 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Enumerate requirements of an acceptable classification method • Describe Kennedy's classification • Enlist Applegate's rules • Describe advantages and drawbacks of Kennedy's classification 	IC 2	LGIS SGD	MCQs/ SEQs/ VIVA
15.	Biomechanics of Removable Partial Denture	<ul style="list-style-type: none"> • Describe possible movements of a partial denture 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe possible movements of partial denture and various components that counter these movements 	IC 2	LGIS	MCQs/ SEQs/ VIVA
16.	Components of Removable Partial dentures	<ul style="list-style-type: none"> • Identify components that serve as major and minor connectors • Discuss the role of rests in partial denture support • Recall the role of retainers in complete denture retention 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe principles for design and location of connectors • Describe indications, contraindications and characteristics of various maxillary and mandibular major connectors • Define minor connectors • Describe function, form and location of minor connectors • Define tissue stops and their functions 	IC 2	LGIS SGD	MCQs/ SEQs/ VIVA

			<ul style="list-style-type: none">• Define rest and rest seat<ul style="list-style-type: none">• Classify rests• Enlist advantages of rests• Describe the outline form of an occlusal rest and rest seat• Describe various forms of rests in detail• Define retainers• Classify direct retainers• Describe factors affecting amount of retention• Describe basic principles of clasp design• Enlist indications and contraindications for circumferential and bar clasps• Describe RPI and RPA systems• Describe internal attachments			
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Practical

Weeks	Topic /Theme	Learning Objectives	IC Codes	MITs	Assessment Tools
Week 1	<ul style="list-style-type: none"> • Orientation to prosthodontic department • History taking & clinical examination • Primary impressions of edentulous patients • Custom tray fabrication • Secondary impression 	<ul style="list-style-type: none"> • Use instruments & appliances • Demonstrate correct technique of history taking & clinical examination • Take primary impression using impression compound • Fabricate custom tray using auto polymerizing resins • Take secondary impression with zinc oxide eugenol using green stick as border molding material 	IC 1 to IC 6	Demonstration	OSCE/Practical
Week 2	<ul style="list-style-type: none"> • Maxillomandibular relationship • Teeth setup 	<ul style="list-style-type: none"> • Practice recording maxillomandibular relation using biometric guidelines • Practice tooth setup using records obtained from patients and also utilizing biometric guidelines 	IC 1 to IC 6	Demonstration	OSCE/Practical
Week 3	<ul style="list-style-type: none"> • Try-in 	<ul style="list-style-type: none"> • Demonstrate the verification of esthetic, phonetics, centric record & VDO at try-in of dentures 	IC 1 to IC 6	Demonstration	OSCE/Practical

	<ul style="list-style-type: none"> Laboratory procedures for denture processing 	<ul style="list-style-type: none"> Perform flasking, de waxing, packing, curing and finishing of dentures 			
Week 4	<ul style="list-style-type: none"> Insertion of dentures and follow up 	<ul style="list-style-type: none"> Perform the insertion of dentures and post insertion follow up management 	IC 1 to IC 6	Demonstration	OSCE/Practical
Week 5	Cast partial denture designing (Kennedy' class I &II)	<ul style="list-style-type: none"> Design partial denture in Kennedy's class I & II 	IC 1 to IC 6	Demonstration SGD	OSCE/Practical
Week 6	Cast partial denture designing (Kennedy' class III &IV)	<ul style="list-style-type: none"> Design partial denture design in Kennedy's class III & IV 	IC 1 to IC 6	Demonstration SGD	OSCE/Practical
Week 7 & 8	Anterior teeth Crown preparation	<ul style="list-style-type: none"> Practice the preparation of anterior teeth for metal ceramic and all ceramic crowns 	IC 1 to IC 6	Demonstration SGD	OSCE/Practical
Week 9 & 10	Posterior teeth Crown preparation	<ul style="list-style-type: none"> Practice the preparation of posterior teeth for metal ceramic crowns 	IC 1 to IC 6	Demonstration SGD	OSCE/Practical

3. Orthodontics

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
01	Diagnosis of Malocclusion	At the end of the term, the students will be able to: <ul style="list-style-type: none"> Apply the knowledge of orthodontic diagnosis Develop the problem list of an orthodontic case 	At the end of the lecture, the students will be able to: Knowledge <ul style="list-style-type: none"> Explain the method of extra-oral and intra-oral clinical examination Recall the need of planning appropriate diagnostic records 	IC 2	LGIS SGD	MCQ/SEQs Viva
			Skill <ul style="list-style-type: none"> Interpret the diagnostic records Formulate a comprehensive diagnosis and problem list 	IC 1 to IC 6	Demonstrations Practical	OSCE Practical
02	Bone Metabolism	<ul style="list-style-type: none"> Demonstrate the metabolic basis of orthodontic 	Knowledge	IC 2	LGIS	MCQ/SEQs Viva

		<p>tooth movement</p> <ul style="list-style-type: none"> • Apply the knowledge of different orthodontic forces on tooth movement 	<ul style="list-style-type: none"> • Describe the different tissue changes involved in orthodontic tooth movement • Describe the effects of different drugs on tooth movement • Explain the deleterious effects of orthodontic tooth movement on periodontium • Relate bone metabolism with orthodontic tooth movement • Explain the effects of normal and excessive forces 			
03	Biomechanics	<ul style="list-style-type: none"> • Demonstrate the basic principles of biomechanics in Orthodontics • Apply the knowledge of the biomechanical properties of an orthodontic appliance • Apply the knowledge of 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Explain the basic concepts of orthodontic biomechanics • Explain the different types of tooth movement and forces • Describe the ideal properties of an orthodontic appliance • Describe the biomechanical requirements of an orthodontic appliance • Define anchorage and explain its different types • Describe the methods used to enhance the anchorage 	IC 2	<p>LGIS</p> <p>SGD</p>	<p>MCQ/SEQs</p> <p>Viva</p>

		anchorage in orthodontic biomechanics	<u>Skill</u> <ul style="list-style-type: none"> Design the orthodontic appliance based on the principles of biomechanics Perform different wire bending techniques Use different methods of re-enforcing anchorage in clinical orthodontic practice 	IC 1 IC 2 IC 4 IC 6	Demonstrations Practical	OSCE Practical
04	Malocclusion and treatment planning	<ul style="list-style-type: none"> Apply the knowledge of treatment planning for different orthodontic problems 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe the different types of malocclusion Explain the basic principles of treatment planning 	IC 2	LGIS SGD	MCQ/SEQs Viva
			<u>Skill</u> <ul style="list-style-type: none"> Identify the orthodontic problems and their features Perform a comprehensive orthodontic diagnosis Organize an orthodontic problem list Formulate a treatment plan for different types of malocclusions 	IC 1 to IC 6	Demonstrations Practical	OSCE

05	Protocols used in mixed dentition	<ul style="list-style-type: none"> Demonstrate the concepts of prevention, interception and management of mixed dentition problems in Orthodontics 	<u>Knowledge</u> <ul style="list-style-type: none"> Identify different orthodontic problems in mixed dentition stage Discuss the protocols of controlling habits, serial extractions, space maintenance, space regaining, space supervision and growth modification 	IC 2	LGIS SGD	MCQ/SEQs Viva
			<u>Skill</u> <ul style="list-style-type: none"> Prevention, interception and management of different problems in the mixed dentition stage 	IC 1 to IC 6	Demonstrations Practical	OSCE Practical

Practical

Weeks	Topic /Theme	Learning Objectives	IC Codes	MITs	Assessment Tools
Week 1	Cast Analysis Basic wire bending exercises	<ul style="list-style-type: none"> Practice the basic technique of performing cast analysis Demonstrate skills of basic wire bending in Orthodontics 	IC 1 IC 2 IC 4	Demonstration	OSCE/Practical

Week 2	Cast Analysis Basic wire bending exercises	<ul style="list-style-type: none"> Practice the basic technique of performing cast analysis Demonstrate skills of basic wire bending in Orthodontics 	IC 1 IC 2 IC 4	Demonstration	OSCE/Practical
Week 3	Mixed Dentition Analysis	<ul style="list-style-type: none"> Practice the basic technique of performing mixed dentition analysis 	IC 1 IC 2 IC 4	Demonstration	OSCE/Practical
Week 4	Case presentation	<ul style="list-style-type: none"> Demonstrate skills of orthodontic case presentation Ward test 	IC 1 to IC 6	Demonstration	OSCE/Practical

4. OMFS:

S. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Code	MITs	Assessment Tool
01	Trauma: Dento-Alveolar Fractures	At the end of term student will be able to: <ul style="list-style-type: none"> Diagnose and order relevant investigations Make appropriate referral related to Oral & 	At the end of lecture, student should be able to: <u>KNOWLEDGE</u> <ul style="list-style-type: none"> Describe facial soft tissue and dento-alveolar injuries 	IC 2	LGIS CBL SGD	MCQ SEQ VIVA

		<p>Maxillofacial trauma presenting in Emergency or Out Patient Units</p> <ul style="list-style-type: none"> • Diagnose & manage dentoalveolar & mandible fractures by closed methods 	<ul style="list-style-type: none"> • Classify dento-alveolar and soft tissue injury • Define abrasion, contusion, laceration and diagnose these injuries by history and clinical examination • State etiology of maxillofacial (hard and soft tissue) & dento-alveolar trauma 			
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> • Evaluate dento-alveolar trauma by history, clinical and radiological examination • Manage dento-alveolar injuries and keep up to date with current guidelines 	IC 1 to IC 6	Demonstrations / Practical	OSCE
			<p><u>ATTITUDE</u></p> <ul style="list-style-type: none"> • Respect patients • Acquire Informed Consent 	IC 1 to IC 6	Demonstrations / Practical	OSCE

02	ATLS & Mandible Fractures	<ul style="list-style-type: none"> • Discuss the various airway management maneuvers • Discuss classification, principles of management and complications of mid face fractures 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • State etiology of maxillofacial trauma • Describe ATLS and BLS • Describe various airway management maneuvers (surgical & non-surgical) • Classify mandibular fractures according to the type, site and favorability to reduction • Enlist complications of mandibular fractures • Describe open & closed methods of fracture reduction & treatment 	IC 2	LGIS SGD	MCQ SEQ VIVA
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> • Examine patient with suspected mandibular fracture • Diagnose mandibular fractures by eliciting signs & symptoms and • Interpret radiographic investigations related to mandible fracture • Formulate a treatment plan for mandibular fractures in adults and children • Perform MMF via eye lets on study models 	IC 1 to IC 6	Demonst rations / Practical	OSCE

			<u>ATTITUDE</u> <ul style="list-style-type: none"> • Respect patients • Acquire informed consent 	IC 1 to IC 6	Demonstrations / Practical	OSCE
03	Mid-Face, NOE & ZMC Fractures	<ul style="list-style-type: none"> • Discuss classification, principles of management and complications of mid face fractures 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> • Classify mid face fractures (Lefort I, II & III) • Discuss principles of management of fractures of mid-face • Discuss principles of management of fractures of zygomatic bone, arch, frontal bone and naso-orbitoethmoid (NOE) complex fracture • Enlist complications of mid and upper face fractures 	IC 2	LGIS	MCQ SEQ VIVA
04	Fire Arm Injury	<ul style="list-style-type: none"> • Discuss management of fire arm injuries 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> • Describe considerations in the management of pediatric and geriatric maxillofacial trauma • Describe principles of management of fire arm injuries involving the face 	IC 2	LGIS	MCQ SEQ VIVA

05	Pathology (Biopsy)	<ul style="list-style-type: none"> Identify a potentially malignant lesion, can describe and perform steps of biopsy Describe features of malignant lesion and order relevant investigations Identify jaw cysts and tumours Order relevant investigations, formulate treatment plan Manage a patient who has been irradiated, can identify a patient at risk of MRONJ & Osteoradionecrosis Identify a patient with sinus pathology/ oroantral communication/fistula Describe management of patient having root displaced in maxillary sinus 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Describe the adjuncts to clinical screening of suspicious lesions State the indications of biopsy Describe each type of soft and hard tissue biopsy Describe principles of biopsy Describe methods of specimen orientation 	IC2	LGIS/ SGD	MCQ SEQ VIVA
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> Record history of a patient with potentially malignant lesions in oral and maxillofacial region Order and interpret relevant investigations Write a biopsy request form for histopathological examination and properly handle biopsy specimen Follow up of a biopsy patient 	IC 1 to IC 6	Demonstrations / Practical	OSCE
			<p><u>ATTITUDE</u></p> <ul style="list-style-type: none"> Respect patients Acquire informed consent 	IC 1 IC 4	Demonstrations / Practical	OSCE

06	Jaw Cysts	<ul style="list-style-type: none"> • Discuss classification, indications and techniques for the management of jaw cysts 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Classify jaw cysts (odontogenic and non-odontogenic) • Differentiate between radicular, dentigerous and keratocyst • State the indications, advantages, disadvantages and techniques for the management of jaw cysts and cyst-like lesions i.e., enucleation, marsupialization, enucleation followed by marsupialization, enucleation with curettage 	IC 2	LGIS/ SGD	MCQ SEQ VIVA
07	Jaw Tumour	<ul style="list-style-type: none"> • Identify jaw cysts and tumours • Discuss management of jaw tumours 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe the management of jaw tumors based on the types of resection: marginal, segmental, partial, total and composite • Describe the management of benign soft tissue tumors • Describe the management of potentially malignant (pre-malignant) lesions • Describe the management of malignant tumors of the oral cavity according to the following factors: <ul style="list-style-type: none"> i. Histopathology ii. Grade and extracapsular spread 	IC 2	LGIS/ SGD	MCQ SEQ VIVA

			<p>iii. TNM staging</p> <ul style="list-style-type: none"> • State the general principles of OMF reconstruction • Describe the biology of bone reconstruction and define osteo-induction, osteo-conduction, osteo-promotion and osteo-genesis • Classify bone grafts on the basis of source and vascularity 			
08	Maxillary Sinus Disease	<ul style="list-style-type: none"> • Discuss treatment of sinusitis • Discuss oro-antral communication 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Evaluate a patient with maxillary sinus disease • Describe odontogenic and non-odontogenic infections of maxillary sinus and their differential diagnoses • Describe treatment of sinusitis • Classify oro-antral communication according to size and describe their management according to the time elapsed • Enlist the common maxillary sinus tumors of odontogenic and non-odontogenic origin, and describe their management • Describe difference between oro-antral communication and fistula and their management • Describe post-operative sinus 	IC 2	LGIS	<p>MCQ</p> <p>SEQ</p> <p>VIVA</p>

			precautions			
09	Surgical Endodontics	<ul style="list-style-type: none"> Discuss appropriate procedure, flap, technique and (root-end filling) materials for surgical endodontics 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Evaluate a patient with a periapical pathology and order and interpret relevant investigations Discuss indications for surgical endodontic procedures List contraindications for surgical endodontics Select appropriate procedure, flap, technique and (root-end filling) materials for surgical endodontics 	IC 2	LGIS	MCQ SEQ VIVA
10	Management of Patients Undergoing Radiation Therapy & MRONJ	<ul style="list-style-type: none"> Describe the dental management of a patient undergoing radiotherapy to the oral & maxillofacial region 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> State the mechanism of action of radiotherapy, regimes of radiotherapy and list its adverse oral effects Describe the dental management of a patient undergoing radiotherapy to the OMF region Define osteoradionecrosis Describe its stages and management plan State the dental management of a patient undergoing systemic chemotherapy Define MRONJ 	IC 2	LGIS	MCQ SEQ VIVA

			<ul style="list-style-type: none"> State the management of a patient at risk of MRONJ needing dental extraction 			
CLASS TEST						
Week 09	INFECTION ODONTOGENIC INFECTIONS: etiology	At the end of term, student will be able to: <ul style="list-style-type: none"> Identify a facial space infection, determine severity of disease and manage a patient with primary facial space infection 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Discuss factors (host, micro-organisms, anatomical) that govern the spread of odontogenic infections 	IC 2	LGIS/ SGD	MCQ SEQ VIVA
			<u>SKILL</u> <ul style="list-style-type: none"> Evaluate a patient with an odontogenic or maxillofacial infection order and interpret relevant investigations 	IC 1 to IC 6	Practical	OSCE
			<u>ATTITUDE</u> <ul style="list-style-type: none"> Respect patients Acquire Informed Consent 	IC 1 IC 4	Demonstrations / Practical	OSCE

Week 10	FACIAL SPACES	<ul style="list-style-type: none"> Describe various primary & secondary facial spaces 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Diagnose and differentiate between edema (inoculation), cellulitis and abscess Describe anatomical fascial spaces in head & neck(boundaries and contents) which may get involved by spread of odontogenic infections 	IC 2	LGIS	MCQ SEQ VIVA
	ODONTOGENIC INFECTIONS: pathophysiology & management		<u>KNOWLEDGE</u> <ul style="list-style-type: none"> Describe spread, pathophysiology & management of following infections in head and neck <ol style="list-style-type: none"> Odontogenic infection to primary and secondary facial spaces Cavernous sinus thrombosis/orbital cellulitis mediastinitis Ludwig's angina Osteomyelitis, candidiasis, necrotizing fasciitis, actinomycosis 	IC 2	LGIS	MCQ SEQ VIVA
			<u>SKILL</u> <ul style="list-style-type: none"> Formulate management plan for odontogenic infections under following principles: <ul style="list-style-type: none"> Remove the etiology Drain surgically pus and insert drains; if indicated 	IC 1 to IC 6	Practical	OSCE

			<ul style="list-style-type: none"> • Provide supportive therapy: select appropriate antibiotic and manage airway, nutrition, and hydration • Select and prescribe appropriate antibiotic(s) for odontogenic infections • Refer when indicated 			
			<p><u>ATTITUDE</u></p> <ul style="list-style-type: none"> • Respect patients • Acquire informed consent 	IC 1 to IC 5	Demonstrations / Practical	OSCE
Week 11	ANTIBIOTIC PROPHYLAXIS	<ul style="list-style-type: none"> • Prescribe appropriate antibiotics and ascertain the requirement of prophylactic antibiotics in relevant patients 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe prophylactic antibiotic cover, different Antibiotics with recommended dosages • Describe protocol for antibiotic prophylaxis • Justify prophylaxis against infectious endocarditis and total joint replacement 	IC 2	LGIS	MCQ SEQ VIVA

PRACTICAL

Week	Topic/ Theme	Learning Objective	IC Codes	MITs	Assessment Tools
05	Basic Principles of Surgery	<ul style="list-style-type: none">• Describe various suturing material types, their application, specification of suturing needle and suture• Perform various Suturing Techniques• Draw and label various surgical flaps used in minor oral surgery• Identify and use of appropriate size/number blade according to purpose and anatomical region• Handling of Surgical Blade, placement and removal from BP Handle	IC 1 to IC 6	Demonstrations Practical	OSCE
06	Oral & Maxillofacial Trauma	<ul style="list-style-type: none">• Describe various reduction & fixation techniques used in maxillofacial fracture management• Make eye-lets with wire & wire handling• Maxillo-mandibular fixation on Models• Placement of arch bar on models• CBL	IC 1 to IC 6	Demonstrations Practical	OSCE

07	Examination of Oral & Maxillofacial Region	<ul style="list-style-type: none"> • Perform clinical examination of TMJ, Salivary Glands and Lymph Nodes • Identification of armamentarium for Major & Minor Surgical Procedures • CBL 	IC 1 to IC 6	Demonstrations Practical	OSCE
08	Student Presentations & Radiology	<ul style="list-style-type: none"> • Group wise Student presentations 03 students/group • Interpret Radiological findings related to exodontia: Periapical & OPG (impacted canine & 3rd molars) • CBL 	IC 1 to IC 6	Demonstrations Practical	OSCE
09	Ward Test Week	END OF ROTATION WARD TEST	-	-	-

Term II Syllabi

Operative Dentistry

WEEK	TOPIC	NO OF LECTURES
2nd TERM		
13 th Week	Introduction to Endodontics Tooth morphology & access cavity preparation	03
14 th Week	Preparation of radicular pulp space Paper discussion (1 st Term)	02 01
15 th Week	Irrigants & antiseptics Intracanal medicaments	01 02
16 th Week	Obturation	03
17 th Week	Failure in endodontics	03
18 th Week	Class test Surgical endodontics	01 02
19 th Week	Traumatic injuries	03
20 th Week	Traumatic injuries	03
21 st Week	Endo perio lesions	03

22 nd Week	Space Management	01
	Revision	02
23 rd Week	Revision	03
24 th Week	2 nd Term Exam	

Prosthodontics

<u>SECOND TERM (12 WEEKS)</u>	
WEEK 13	<ul style="list-style-type: none"> • Materials used in fabrication of Dentures-I • Materials used in fabrication of Dentures-II
	<ul style="list-style-type: none"> • Materials used in fabrication of Dentures-III
WEEK 14	<ul style="list-style-type: none"> • Materials used in fabrication of Dentures-IV • Materials used in fabrication of Dentures-V
	<ul style="list-style-type: none"> • Landmarks of edentulous maxilla and mandible
WEEK 15	<ul style="list-style-type: none"> • Diagnosis and treatment Planning for PD • Preparation of mouth
	<ul style="list-style-type: none"> • Impression making and theories of Impression making

WEEK 16	<ul style="list-style-type: none"> • Posterior palatal seal area • Beading and boxing of impression & Dental cast • Parts and surfaces of denture
WEEK 17	<ul style="list-style-type: none"> • Fabrication of record bases • Neutral zone
	<ul style="list-style-type: none"> • Classification of partially edentulous arches
WEEK 18	<ul style="list-style-type: none"> • Maxillomandibular Relation-I • Maxillomandibular Relation-II
	<ul style="list-style-type: none"> • Movements of partial denture
WEEK 19	<ul style="list-style-type: none"> • Articulator-I • Articulators-II • Articulators-III
WEEK 20	<ul style="list-style-type: none"> • Facebow
	<ul style="list-style-type: none"> • Major Connectors-I • Major Connectors-II
WEEK 21	<ul style="list-style-type: none"> • Selection of Artificial Teeth
	<ul style="list-style-type: none"> • Minor Connectors • Rest and rest seats
WEEK 22	<ul style="list-style-type: none"> • Arrangement of Teeth-I • Arrangement of Teeth-II
	<ul style="list-style-type: none"> • Direct retainers-I
WEEK 23	<ul style="list-style-type: none"> • Occlusion in complete Denture-I • Occlusion in complete Denture-II
	<ul style="list-style-type: none"> • Direct retainers-II
WEEK 24	TERM EXAM

Orthodontics

Week	Topic	No. of Lectures
1 st Week	Diagnosis of Malocclusion	02
2 nd Week	Bone Metabolism	02
3 rd Week	Bone Metabolism	01
	Biomechanics	01
4 th Week	Biomechanics	02
5 th Week	Anchorage	01
	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Class I Malocclusion 	01
6 th Week	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Crowding & Spacing 	01
	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Class II division 1 malocclusion 	01
7 th Week	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Class II division 2 malocclusion 	01
	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Class III malocclusion 	01
8 th Week	CLASS TEST	01

	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Open bite malocclusion 	01
9 th Week	Malocclusion & Treatment Planning <ul style="list-style-type: none"> • Management of Deep bite malocclusion 	01
	Malocclusion & Treatment Planning Management of Cross bite malocclusion	01
10 th Week	Protocols used in Mixed Dentition	02
11 th Week	Protocols used in Mixed Dentition	02
12 th Week	Term exam	

OMFS

Week	Topic	No. of Lectures
01	TRAUMA <ul style="list-style-type: none"> • Introduction & etiology of maxillofacial trauma • Dentoalveolar fractures 	02
02	TRAUMA <ul style="list-style-type: none"> • ATLS & Mandible fractures 	02
03	TRAUMA:	02

	<ul style="list-style-type: none"> • Midface, NOE, Frontal & ZMC fractures 	
04	<p>TRAUMA</p> <ul style="list-style-type: none"> • Fire-Arm Injuries • Management of pediatric & geriatric patients 	02
05	<p>PATHOLOGY</p> <ul style="list-style-type: none"> • Biopsy • Jaw Cyst 	02
06	<p>PATHOLOGY</p> <ul style="list-style-type: none"> • Jaw Tumor • Bone Grafts & reconstruction 	02
07	<p>PATHOLOGY:</p> <ul style="list-style-type: none"> • Maxillary Sinus Disease • Endodontic Surgery 	02
08	<p>PATHOLOGY</p> <ul style="list-style-type: none"> • Patients undergoing radiation /chemo therapy • MRONJ 	02
09	CLASS TEST	
09	<p>INFECTIONS</p> <ul style="list-style-type: none"> • Odontogenic Infections (etiology & sign/symptoms) 	01
10	<p>INFECTIONS</p> <ul style="list-style-type: none"> • Odontogenic Infections (spread & management) • Facial spaces 	02

11	<p>INFECTIONS</p> <ul style="list-style-type: none"> • Odontogenic Infections (management & complications) • Antibiotic prophylaxis 	02
12	2ND TERM EXAM	

Learning Resources

1. Operative Dentistry

- Sturdevant's Art & Science of Operative Dentistry
- Cohan's Pathways of Pulp
- Grossman Endodontic practice
- Contemporary Fixed Prosthodontics Rosenstiel
- Paediatric Dentistry, Richard Welbury

2. Oral And Maxillofacial Surgery

1. Contemporary Oral and Maxillofacial Surgery, 7th Edition, James R. Hupp
2. Handbook of Local Anesthesia, 7th Edition, Stanley F. Malamed
3. Fractures of the Facial Skeleton, 2nd Edition, Peter Banks
4. Scully's Medical Problems in Dentistry, 7th Edition, Crispian Scully
5. Internet Sources

<https://www.sciencedirect.com/> <https://emedicine.medscape.com/>

3. Orthodontics

- Contemporary Orthodontics William R. Proffit

- An Introduction to Orthodontics Laura Mitchell

4. Prosthodontics

- Prosthodontic treatment for edentulous patients, Thirteen Edition by Zarb and Hobkirk
- McCracken's Removable Partial Prosthodontics, Thirteen Edition
- Contemporary Fixed Prosthodontics Rosenstiel