Frontier Dental College

ABBOTTABAD

Study Guide

(Adapted from Bahria University Guide)

Final Year BDS

FRONTIER DENTAL COLLEGE
ABBOTTABAD

FDC STUDY GUIDE

The study guide serves as a useful handy resource, helping you to navigate your journey at FDC.

The study guide is more than an academic guide.

It not only highlights what, as a student, you should aim to achieve as you work through the curriculum, but also provides essential information about various administrative protocols that you as students of Frontier Dental College are expected to follow.

Vision Statement of FMDC

To become an internationally recognized medical institution that contributes towards development of community health through excellence in medical education.

Mission Statement of FDC

To develop high skilled and motivated dental professionals with the application of basic knowledge equipped with ethical values and ability to provide national and international evidence based dental practice.

FRONTIER DENTAL COLLEGE ABBOTTABAD

PROGRAM LEARNING OUTCOMES (PLO's)

Sr.No	DENTAL PROGRAM LEARNING OUTCOMES	EDUCATIONAL DOMAIN
	At the end of Dental Program the graduates will be able to:	
1.	**Recognize and Apply Basic Scientific Principles** Demonstrate understanding and application of fundamental scientific principles necessary for providing high-standard oral health care.	**Cognitive (Knowledge)**
2.	**Identify and Uphold Patient Rights:** Identify and uphold the rights of dental patients, ensuring respectful and ethical treatment.	**Cognitive (Knowledge)**
3.	**Adhere to Ethical Standards** Identify and adhere to ethical rules and patients' rights within the dental profession, promoting integrity and professionalism.	**Cognitive (Knowledge)**
4.	**Diagnose and Treat Common Oral/Dental Diseases:** Discuss and implement strategies for diagnosis and treating common oral and dental diseases prevalent in the community.	**Cognitive (Knowledge)**
5.	**Interpret Medical/Dental Histories and Make Referrals:** Interpret efficiently medical and dental histories/reports, making appropriate referrals when necessary.	**Cognitive (Knowledge)**
6.	**Practice Evidence-Based Dentistry:** Demonstrate the application of evidence-based practices in dental clinics to ensure high-quality oral health care.	**Psychomotor (Skill)**
7.	**Engage in Lifelong Learning:** Exhibit lifelong learning abilities, including critical thinking, creativity, and staying updated with new information and developments in dental care.	**Psychomotor (Skill)**
8.	**Perform Dentistry Skills with Professionalism:** Perform dental procedure efficiently while demonstrating good professional attitude and communication skills.	**Affective (Attitude)**
9.	**Participate in Dental Research:** Display a proactive interest in dental research activities to contribute to the advancement of the field.	**Affective (Attitude)**

SECTION 2: INTRODUCTION to STUDY GUIDE

When a dental student enters dental college, a new era of academic life begins. This study guide has been designed to help students sail smoothly during their transitional phase. The very first week is spent in familiarizing the students with the environment of Frontier Dental College.

1- Objectives of Study Guide

The purpose of this study guide is to:

- Inform students what they are expected to learn during their study period.
- Guide students on how the student-learning program has been organized, and how it would be implemented.
- Help students organize and manage their studies throughout the year.
- Inform students about the code of conduct at Frontier Dental College
- Inform on organization and management of the team at FMDC. This will help you contact the right individual in case you have any difficulty.
- Describe the course content which will be taught and what the students are expected to learn.
- Impart the information on learning methods that you will experience during the course. The methods include tutorials, lectures, practical skills, experiments, dissection, field visits and research. These learning methods should help you to achieve the course objectives.
- Guides you about the available learning resources for the terms. These include books, computer-assisted learning programs, videos, and other aids
- Makes you aware about the contribution of internal evaluation and term examinations, on student's overall performance.
- Passes the information on the methods of assessment.
- Inform regarding the examination policy, rules and regulations.
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SECTION 3: PROGRAM STRUCTURE AND OVERVIEW

THE MODULAR SYSTEM

Organization of modular curriculum and teaching

a. Each Academic Year is divided into 3 Modules of 3 months' duration each

- **First Year - Modules - 1,2,3**
- **Second Year - Modules - 4,5,6**
- **Third Year - Modules - 7,8,9**
- **Final Year - Modules - 10,11,12**

b. Learning objectives for each module are written down in the study guide issued at the beginning of each academic year to each student. Curriculum for each module can be provided on request.

c. A schedule is issued for each module re-enforced by a weekly schedule issued 2 weeks in advance of the teaching dates.

d. This includes lecture, CBL, Practical's, Demonstrations, Ward Clinics, and Classes in Skills Lab, Self-Study, and Library period.

e. The assessment schedules i.e., end of modules tests as well as period of preparation leave and timing of OSCE/ OSPE is given in the above schedule.

f. The assessment result is displayed on departmental notice boards and recorded in the Examinations Department FMDC.

LEARNING STRATEGIES

- **Interactive Lectures**

The traditional lecture system is used to introduce a subject and discuss the broad concepts in that specific field of study. Interactive lectures to smaller groups remain an effective and essential way of teaching. More recent methods of learning and teaching, such as case-based learning and small group-based problem-solving sessions are also employed.

- **Small Group Based Learning**

Small group and tutorial sessions are regularly held to enable students to discuss the details of a lecture topic. Students are expected to prepare presentations on applied topics and discuss their implications with their fellow students. The lecturer acts as a facilitator. By participating in these group discussions, students can interact and learn from one another such as PBL, CBL etc.

- **Hands on Training**

Being in final year students will deal daily with patients in OPD, to gain, enhance and polish their clinical knowledge and skills. Lectures and tutorials will regularly be held for providing clinical orientation on the subjects.

- **Mini-CEX (Mini Clinical Evaluation Exercise)** and **DOPS (Direct Observational Procedural Skills):**

These are work place based assessment tools (WPBAs) used in clinical settings by supervisors. In Mini-CEX, the trainee is evaluated regarding history taking, physical examination skills, communication skills, clinical judgment, professionalism, organization/efficiency, and overall clinical care. In DOPS, the **focus lies on procedural skills** followed by feedback.

- **Community-based Learning**

FMDC is committed to provide the environment and training that would enable professionals to successfully contribute to the improvement of the health sector, particularly in less privileged communities under the Community-Oriented Dental Education Program.

The university involves its students in research-developing work in these designated communities. Students are encouraged to participate in the preventive and curative care and management of patients and their families in Primary Health Care field settings.

- **Problem Based Learning (PBL)**

PBL promotes active learning and critical thinking in small collaborative groups. In PBL, problem introduces a real patient or as hypothetical case. Students identify the key elements of the case, develop and test hypothesis based on pathophysiological mechanisms, decide on diagnosis, and discuss principles of management. Content of PBL reflects horizontal integration of curriculum. The development of PBL cases is a challenging process, as each case must reflect a defined set of learning objectives, have face validity, suit the student's stage of maturity, and fit with restraints of time and resources. A typical PBL tutorial consists of usually 8 to 10 students and a tutor, who facilitates the session with minimum interference. The PBL tutorials comprised of three sessions of two hours and the time is scheduled in timetable approximately two weeks before.

The PBL comprised of seven-jumps (Maastricht) such as clarifying terms, defining problem(s), brainstorming, structuring and hypothesis, learning objectives, independent study, and synthesis/presentation.

- **Case-Based Learning (CBL)**

Case-based learning (CBL) is an adaptation of the PBL process and more generally used in clinical context to develop clinical reasoning and judgment. Written case studies, prepared by tutors and students are required to work together to identify clinical problems, prepare differential diagnoses and suggest potential investigations and treatment. Students set their own learning objectives and identify the learning resources required to confirm or refute their diagnostic possibilities. The CBL format is flexible. CBLs are overseen by facilitators who guide the students in case they are not on the right track as unlike PBLs, the CBL session must be completed in one day.

COMPETENCIES AND LEARNING OUTCOMES OF DENTAL UNDER-GRADUATES

COMPETENCIES

1. **Skillful**
2. **Knowledgeable**
3. **Community health promoter**
4. **Critical thinker**
5. **Professional**
6. **Researcher**
7. **Leader**

i. Skillful:

Under Graduates must be competent to:

1.1 Apply appropriate interpersonal and communication skills.

1.2 Apply psycho-social and behavioral principles in patient-centered health care.

1.3 Communicate effectively with individuals from diverse populations.

1.4 Apply basic dental morphology and application of dental materials on patients.

ii. Knowledgeable

A. Assessment, Diagnosis, and Treatment Planning

Under Graduates must be competent to:

2.1 Manage the oral health care of infant, child, adolescent, and adult, as well as unique needs of women, geriatric, and special needs patients.

2.2 Identify, prevent, and manage trauma, oral diseases, and other disorders.

2.3 Obtain, and interpret patient / medical data, including a thorough intra/extra oral examination, and use these findings to accurately assess and manage patients.

2.4 Select, obtain, and interpret diagnostic images for the individual patient.

2.5 Recognize the manifestations of systemic disease and how the disease and its management may affect the delivery of dental care.

2.6 Formulate a comprehensive diagnosis, treatment, and/or referral plan.

B. Establishment and Maintenance of Oral Health

Under Graduates must be competent to:

2.7 Follow universal infection control guidelines for all clinical procedures.

2.8 Manage pain and anxiety in the dental patient.

2.9 Diagnose temporo-mandibular joint disorders.

2.10 Manage periodontal diseases.

2.11 Develop and implement strategies for the clinical assessment and management of caries

2.12 Manage restorative procedures that preserve tooth structure, replace missing or defective tooth structure, maintain function, are esthetic, and promote soft and hard tissue health.

2.13 Manage developmental or acquired occlusal abnormalities.

2.14 Manage the replacement of teeth for the partially or completely edentulous patient.

2.15 Manage pulpal and peri-radicular diseases.

2.16 Manage oral surgical treatment needs.

2.17 Manage medical and dental emergencies.

2.18 Manage patient abuse and/or neglect.

2.19 Manage substance abuse.

2.20 Evaluate outcomes of comprehensive dental care.

2.21 Manage oral mucosal and osseous diseases.

iii. Community Health Promoter

Under Graduates must be able to:

3.1 Demonstrate skill in providing prevention, intervention, and educational strategies.

3.2 Demonstrate competency in promoting health and managing various oro-facial diseases while working in a team.

3.3 Recognize and appreciate the need to contribute to the improvement of oral health beyond those served in traditional practice settings.

2. Critical Thinker

Under Graduates must be competent to:

4.1 Evaluate and integrate emerging trends in health care as appropriate.

4.2 Apply critical thinking and problem-solving skills while dealing with patients.

4.3 Evaluate and integrate best research outcomes with clinical expertise and patient values for evidence-based practice.

3. Professional

Under Graduates must be competent to:

5.1 Apply ethical and legal standards in the provision of dental care.

5.2 Practice within one's scope of competence and consult with or refer to professional colleagues when indicated.

4. Researcher

Under Graduates must be competent to:

6.1 Apply the current research for innovations in treatment, keeping at par with international standards

6.2 Conduct independent research based on the community requirements

5. Leader

Under Graduates must be able to:

7.1 Manage self, taking responsibility and utilizing the time to the best of his/her ability.

7.2 Demonstrate leadership skills effectively while working in a group or in a team.

7.3 Recognize and comply with the working system of any Institut

INTRODUCTION TO DEPARTMENTS

Department of Operative Dentistry

Department of Orthodontics

Department of Oral and Maxillofacial Surgery

Department of Prosthodontics

LEARNING OUTCOMES OF COURSES

LEARNING OUTCOMES OF COURSE OF OPERATIVE DENTISTRY

After completing the course of **Operative, Endodontics & pediatric Dentistry**, the student of Final Year BDS will be able to:

Operative and Endodontics

- **Knowledge-based learning outcomes:**

Describe the principles of operative dentistry, including the diagnosis, treatment planning, and execution of various operative procedures.

- **Skill-based learning outcomes:**

Develop fine motor skills and hand-eye coordination through practice and simulation exercises.

- **Attitude-based learning outcomes:**

Develop a patient-centered approach to operative dentistry, emphasizing empathy and respect for patient autonomy with culture of safety. (Adhering to infection control protocols and minimizing risks to patients and themselves)

Pediatric Dentistry

- **Knowledge-based learning outcomes:**

Explain the etiology, diagnosis, and treatment of various pediatric dental diseases, such as early childhood caries and pulpitis.

- **Skill-based learning outcomes:**

Demonstrate proficiency in various pediatric dental procedures, including:

- Restorative dentistry (e.g., fillings, crowns)
- Endodontic therapy (e.g., pulp treatment, root canals)
- Prophylactic procedures (e.g., cleanings, fluoride treatments)
- Behavioral management techniques (e.g., tell-show-do, sedation)

Attitude-based learning outcomes:

Develop a patient-centered approach to pediatric dentistry, Cultivate a commitment to lifelong learning, staying current with advances in pediatric dentistry and related fields.

Orthodontics

After completing the course of Orthodontics, the student of Final Year BDS will be able to:

- Identify potential malocclusions and those that have developed to intercept them
- Take good diagnostic aids (pictures, impressions and proper history) and use them efficiently for planning orthodontic treatment

Oral and maxillofacial surgery

By the end of the OMFS course, students of final year BDS should be able to:

- Manage the patients requiring minor oral surgical procedures under supervision.
- Refer complex cases to the specialist of the concerned departments

Prosthodontics

By the end of the Prosthodontics course, students of final year BDS should be able to:

- Rehabilitate edentulous and partially dentate patients with conventional removable treatment options utilizing critical thinking and problem-solving skills in patients of all ages, needs, and systemic diseases.
- Recognize treatment that is beyond his/her skills & needs to be referred to a specialist through verbal and written communication.
- Incorporate emerging trends in healthcare management and promotion.
- Communicate effectively & confidently with patients by applying psychological and behavioral principles in tertiary care setup
- Design prosthesis for advanced prosthetic treatment options in a simulated environment

MODULE X

(Endodontics, Growth and Development, Basic surgical principles, Edentulism)

At the end of the module, students should be able to:

S.no	Learning Objectives	Teaching Strategies	Assessment Tool
	Teaching strategies IL*= Interactive large group discussion CR*= Clinical rotation work in OPD SGD*= Small group discussion Skill Lab*= Phantom Lab	**Assessment tools** BCQs= Best choice questions SAQs= Short Answer Questions OSCE= Oral Structured & Clinical Exam	
	Presentations / Assignment / quiz activity / poster competition	Continues throughout the module	
	OPERATIVE DENTISTRY		
1.	Define Endodontics	IL	Viva
2.	Memorize Aims of Endodontics, its indications and case selection	IL	BCQs
	Operative and oral anatomy integration		
3.	*Identify Anatomy of the root canal system*	*IL*	*OSCE*
4.	*Know the cells and extracellular components of the dental pulp*	*IL*	*BCQs*

5.	*Review the blood vessels, lymphatic system and innervations of dental pulp*	*IL*	*BCQs*
6.	*Illustrate various canal configurations y*	*IL/SGD*	*SAQs*
7.	*Recognize the age changes in the dental pulp*	*IL*	*BCQs*
8.	*Revise the function of the dental pulp*	*IL/SGD*	*BCQs*
9.	*Appreciate the periapical tissues*	*IL*	*BCQs*
10.	Discuss the theories of dentine hypersensitivity	IL/SGD	OSCE
11.	Debate the pulp responses to injury (mechanical, chemical and heat)	IL/SGD	BCQs/SAQs/OSCE
12.	Describe the reparative mechanisms of the pulp, including immune responses and tertiary dentin formation.	IL	BCQs/SAQs/Viva
13.	Plan Vital Pulp Therapies (pulp capping, pulpotomy, Apexogenesis)	IL/CR	SAQs/OSCE
14.	Perform Step-wise excavation	IL/CR	BCQs/SAQs/OSCE
15.	Execute Direct Pulp Capping	IL/CR	SAQs/OSCE
16.	Propose Pulpotomy (partial and complete)	IL/CR	SAQs/OSCE
17.	Perform Apexogensis	IL/CR/CBL	SAQs/OSCE
18.	Discuss the procedure of Apexification	IL/CR/CBL	SAQs/OSCE
19.	Recognize the potential of tissue engineering technique in regenerating pulpal tissue.	IL/SGD	BCQs/SAQs/Viva
20.	Describe the types of endodontic infection	IL/SGD	BCQs/SAQs
21.	Relate the route of entry of microorganisms to the pulpal infection	IL/SGD	BCQs/ Viva
22.	Name the microorganisms associated with pulpal and periradicular diseases	IL	BCQs /Viva
23.	Explain the development of pulpal pathosis	IL	BCQs
24.	Know etiology, clinical & radiographic features of reversible and irreversible pulpitis	IL/SGD	BCQs/SAQs/VIVA
25.	**Professionalism and ethics**		

a.	Introduce himself/ herself to the patient before history taking	CR	OSCE/ Role play
b.	Communicate to the patient confidently & respectfully during history taking and patient examination for endodontic treatment	CR	OSCE/ Role play
c.	Inform patient about the problem list	CR	OSCE/ Role play
d.	Explain role of prevention in dentistry	CR	OSCE
e.	Communicate properly to the patient to take consent	CR	OSCE/ Role play
f.	Explain procedure of the therapies to the patient	CR	OSCE/ Role play
26.	Apply methods for Extraoral & Intraoral examination	CR	OSCE /VIVA
27.	Check the vitality of dental pulp	CR	OSCE
28.	Infer provisional diagnosis of Dental pulp	CR	OSCE
29.	Perform management of reversible and irreversible pulpitis	IL/CR	BCQs/SA Qs/OSCE
30.	Recognize the clinical features and management of pulp polyp	IL/CR	BCQs/SA Qs/OSCE
31.	Classify Periapical Lesions of pulpal origin	IL/SGD	BCQs/SA Qs
32.	Explain etiology, sign symptoms and management of symptomatic apical periodontitis	IL/SGD	BCQs/SA Qs/OSCE
33.	Discuss clinical features and management of asymptomatic apical periodontitis	IL/SGD	BCQs/SA Qs/OSCE
34.	Define Condensing Osteitis	IL/SGD	BCQs
35.	Differentiate between acute apical abscess and chronic apical abscess	IL/SGD	BCQs/SA Qs/OSCE
36.	Perform tests for diagnosis of periapical lesion (percussion, palpation)	CR	OSCE
37.	Relate primary endodontic and secondary periodontal lesion	IL/CR	BCQs/SA Qs/OSCE
38.	Know primary periodontal lesion and secondary endodontic lesion	IL/CR	BCQs/SA Qs/OSCE
39.	Report the healing of periapical lesions after root canal treatment	IL/CR	BCQs

40.	Formulate treatment plan for endodontic emergencies	IL/CR/SGD	BCQs/OSCE
41.	Identify prognosis and assess which cases should be considered for referral	CR	OSCE
42.	Identify endodontic instruments and their application and describe ISO standardization and its purpose	CR/SGD/IL	BCQs/OSCE
43.	**Patient Safety**		
a.	Express importance of endodontic radiology	IL/CR	BCQs/OSCE
b.	Demonstrate to the patient about use of lead apron & thyroid collar for X-ray taking	CR	OSCE
44.	List components of X-ray film packet	CR	OSCE
45.	Revise principle of ALARA	IL/CR/SGD	SAQs/OSCE
46.	Restate indications of Periapical radiograph	IL/CR	BCQs/SAQs
47.	Demonstrate and apply positioning technique of periapical radiograph	CR	BCQs/OSCE
48.	Interpret Radiographic findings for diagnosis	CR/SGD	BCQs/OSCE
49.	Compare paralleling and bisecting angle technique	IL/SGD	BCQs/OSCE
50.	Perform SLOB rule in endodontic	IL/SGD	BCQs/OSCE
51.	Recognize the importance of digital radiography	IL/SGD	BCQs
	Operative and Oral surgery integration		
52.	*Apply techniques of local anesthesia (Infiltration & Block anesthesia)*	*CR*	*BCQs*
53.	Implement technique of supplemental anesthesia including Intraosseous, Intraligamentary, Intrapulpal	IL/CR	BCQs/SAQs/OSCE
54.	**Patient Safety**		
a.	Explain to the patient, about the use of isolation methods for safety	CR	OSCE
b.	Clarify patient to the use of saliva ejector for isolation	CR	OSCE
c.	Practice principal of Isolation in endodontic (rubber dam).	CR	OSCE
55.	Identify objectives of straight line access preparation in both anteriors and posteriors teeth	IL/SGD/CR	BCQs/ Viva

56.	Demonstrate the location of each canal orifice	IL/SGD/CR	BCQs/OSCE
57.	Perform the pulpectomy	IL/SGD/CR	BCQs/OSCE
58.	Establish the working length of the root canals	IL/SGD/CR	BCQs/OSCE
59.	Explain cleaning and shaping of root canals	IL/SGD/CR	BCQs/SAQs/OSCE
60.	Differentiate between step-back and crown-down techniques of canal preparation	IL/SGD/CR	BCQs/SAQs/OSCE
61.	Execute passive step-back, balanced force and Ni-Ti rotary techniques of canal preparation	IL/CR	BCQs/SAQs
62.	Quantify the criteria for evaluating cleaning and shaping	IL/SGD/CR	BCQs/SAQs
63.	Know the irrigants use during cleaning and shaping	IL/SGD/CR	BCQs/SAQs/ Viva
64.	Appreciate the objectives of intracanal medicaments in root canal treatment	IL/SGD/CR	BCQs/SAQs/ Viva
65.	Explain the use of intracanal medicaments	IL/SGD/CR	BCQs/SAQs
66.	Apply temporary restorations to seal the access cavity	IL/SGD/CR	SAQs
67.	Know when to obturate the canal	IL/SGD/CR	BCQs
68.	Write obturation and sealer materials	IL/SGD	BCQs/SAQs
69.	Perform different techniques of obturation (lateral condensation, vertical compaction)	IL/CR	BCQs/SAQs/ OSCE
70.	Execute restoration of endodontically treated teeth	IL/CR	BCQs /Viva
71.	Recognize Procedural Accidents during root canal treatment	IL/CBL	BCQs/SAQs/OSCE
72.	Elaborate the causes, prevention, and treatment of various procedural accidents	IL/SGD	BCQs/SAQs/Viva
73.	Memorize Indications & contraindications and procedural steps of retreatment in failed endodontic tooth	IL	BCQs/SAQs

74.	Execute procedure of retreatment when required	IL	BCQs/SAQs/ Viva
	Operative and Oral surgery integration		
75.	*Describe indications and contraindications of periapical surgery*	*IL*	*BCQs/SAQs*
76.	*Perform procedures involved in periapical surgery*	*IL*	*BCQs/OSCE*
77.	*Differentiate between Root amputation, Hemisection and Bicuspidization*	*IL*	*BCQs/SAQs/OSCE*
78.	Evaluate Endodontic Outcomes	IL	BCQs
79.	Categories longitudinal tooth fractures	IL	BCQs/SAQs
80.	Conduct various tests for longitudinal tooth fractures	CR	OSCE
81.	Perform Diagnosis of longitudinal tooth fractures	IL	BCQs/SAQs/OSCE
82.	Plan management of longitudinal tooth fractures	IL	BCQs/SAQs/OSCE
83.	**Communication skill**		
a.	Show positive gestures to the patient	CR	Role play
b.	Inquire relevant questions from the patients for the diagnosis of pulpal and periapical lesion	CR	OSCE
c.	Able to communicate with superiors and juniors respectfully	CR	----------
d.	Presentation skill	CR	Competition
	<u>ORTHODONTICS</u>		
1)	Identify the different orthodontic terms	IL	OSCE
2)	Use the terms in diagnosis and problem list of a case	IL/ CR	CQ /OSCE
3)	Recall the normal anatomical structures of head and face	IL	CQ
4)	Quote the importance of studying growth	IL	SAQ
5)	Quote different types of bone growth	IL	SAQ / BCQ

6)	State the reasons for different types of bone growth	IL	Assignment
7)	Quote what are growth fields, sites and centers	IL	SAQ / BCQ
8)	List differences between the growth fields, sites and centers	IL	SAQ / BCQ
9)	List areas which are fields, sites and centers	IL	BCQ
10)	Recall and present how the growth occurs in different areas of head and face	IL/CP	SAQ
11)	List out the different theories regarding how growth takes place	IL	SAQ
12)	Identify the theory that explains the growth process that is taking place in the jaw	IL	SAQ
13)	Discuss the reasons why some growth theories were discarded	IL	CQ
14)	Quote what type of growth occurs in the maxilla and mandible	IL	SAQ
15)	Predict the changes that would occur in maxilla and mandible at different chronological ages	IL / CR	OSCE
16)	Identify changes in width, length and height of jaws during growth	IL	SAQ/ BCQ/
17)	State the normal growth rotations that occur in jaws	IL / CBL	OSCE
18)	Identify the type of growth rotation that occurs in a particular patient	CR / CBL	OSCE
19)	State how occlusion develops	IL / CR	CQ
20)	Identify the physiologic spaces that occur in an arch during deciduous and mixed dentition	IL/ CR	OSCE/ BCQ
21)	Recognize the importance of the physiologic spaces that occur in an arch during deciduous and mixed dentition	IL	BCQ
22)	Measure and calculate the physiologic spaces during mixed dentition for diagnosis	CR	OSCE
23)	Identify the dentition****	CR	OSCE
24)	Recognize the differences between deciduous and permanent dentition	CR	OSCE
25)	Quote what is arch length deficiency	IL / CR	CQ
26)	Measure the arch length deficiency	CR	OSCE
27)	Recognize the importance of calculating arch length deficiency	IL / CR	OSCE / BCQ
28)	Calculate the arch length deficiency in mixed dentition	CR/ CBL	OSCE
29)	Identify space loss in an arch	CR / CBL	OSCE

30)	Quote the importance of identification of space loss in the arch	IL	CQ
31)	Relate the teeth present in the arch to the chronological age of the patient ****	CR / CBL	OSCE
32)	Quote the eruption timings of the teeth in an arch****	CR	OSCE
33)	Recognize the eruption sequence and timings in an arch****	CBL	OSCE/ BCQ
34)	Recognize the changes in arch during transition between deciduous , mixed and permanent dentition	IL	SAQ/ BCQ
35)	Identify the different orthodontic terms	IL	OSCE
36)	Use the terms in diagnosis and problem list of a case	IL/ CR	CQ /OSCE
	ORTHODONTICS / PROSTHODONTICS /OPERATIVE		
37)	Recognize different terminologies of occlusion	IL / CR	OSCE
38)	Interpret the different terminologies of occlusion	CR	OSCE
39)	Quote the differences between static and dynamic occlusion	IL	OSCE / BCQ
40)	Use the terminologies of occlusion when making a problem list of a patient	IL / CR	OSCE
41)	State the methods to measure the dynamic occlusion	IL	SAQ/ BCQ
42)	Recognize the importance of measuring dynamic occlusion in a case	IL	CQ
43)	Quote different classifications of occlusion	IL / CR	SAQ / BCQ
44)	Recognize the normal inter-relationship of teeth	CR	OSCE
45)	State how occlusal interferences and the malocclusions and effect on musculature	IL / CR	BCQ/ OSCE
46)	Correlate centric relation, centric occlusion and maximum intercuspation.	IL	BCQ
47)	Recognize the acceptable final relationship of upper and lower teeth, at the end of orthodontic treatment	IL / CR	OSCE
48)	Recognize the importance of the curves of occlusion in an arch	IL / CR	OSCE
49)	Classify occlusion	CR	OSCE
	ORTHODONTICS		
50)	State Andrews six keys of occlusion	IL / CR	SAQ
51)	Recognize the importance of having the six keys in a dentition	IL/ CR	OSCE
52)	Recognize the absence of any of the six keys in a dentition	CR	OSCE
53)	Recognize the importance of functional and non functional cusps	IL	SAQ/ BCQ

54)	Identify certain syndromes due to their clinical features	CP	BCQ / OSCE
55)	Predict the dental malocclusion for each syndrome	IL / CBL	OSCE
56)	Recognize the treatment changes that occur due to the presence of a syndrome in a patient	CBL	SAQ/ BCQ/ OSCE
57)	Quote the etiologies of different syndromes	IL	SAQ / OSCE
58)	Quote differences between skeletal and chronological age of a patient	IL / CR	OSCE
59)	Recognize the importance of calculating a patients age before growth completes	IL / CBL/ CR	OSCE
60)	Recognize the importance of utilization of growth potential while providing treatment to orthodontic patient.	IL/ CBL / CR	OSCE/ BCQ
61)	Estimate the skeletal age of a patient	CR	OSCE/ BCQ
62)	Quote the different treatment options available at different stages of growth of patient	CR	OSCE
63)	Measure overjet and overbite clinically	CR	OSCE
64)	Record maximum intercuspation	CR	OSCE
65)	Compare canine guidance and group function occlusion schemes	IL / CR	BCQ/ SAQ/ OSCE
66)	Relate different determinants of occlusion.	IL	BCQ
67)	Correlate centric relation, centric occlusion and maximum intercuspation.	IL	BCQ
68)	Correlate temporomandibular joint, musculature and teeth.	IL	BCQ
69)	Measure overjet and overbite clinically	CR	BCQ/OSCE
70)	Record maximum intercuspation	CR	BCQ/OSCE
71)	Classify molar relationship according to angle's classification	IL	BCQ
72)	Compare canine guidance and group function occlusion schemes	IL	BCQ
	PROFESSIONALISM AND ETHICS		
73)	Communicate with each other and faculty confidently and respectfully	CR	Observation during CR

74)	Complete all tasks on or before deadlines	CR	Observation during CR
	PATIENT SAFETY		
75)	Perform the sterilization of instruments independently and understand its importance	CR	OSCE
76)	Demonstrate the wearing of lead apron before the radiographs and understand its importance	CR	Observation during CR
	COMMUNICATION SKILLS		
77)	Communicate the problem list of patients confidently and thoroughly	CR	Class presentation
78)	Demonstrates skills in presentation	CR/ class presentations	Class presentation
	OMFS		
1)	List indications and contraindications of local anesthesia, general anesthesia and sedation	IL	MCQ
2)	Identify the role of conscious sedation in the field of Oral and Maxillofacial Surgery	IL	MCQ
3)	Enlist the complications associated with local and general anesthesia	IL	MCQ
4)	Perform Infiltration and Block techniques of Local anesthesia on patient.	IL/SGD/CR	OSCE
5)	Enumerate principles of flap design and incision	IL	MCQ/SAQ
6)	List the principles of suturing, types of sutures, advantages and disadvantages	IL/SGD	MCQ
7)	Interpret various hematological and radiological investigations	IL	MCQ
8)	List the instruments used in Oral & Maxillofacial surgery	IL/CR	MCQ/OSCE
9)	Take the history of patient at the chair side with relevant information, evaluation, assessment, diagnosis and treatment plan	IL/CR	SAQ/OSCE
10)	Identify and state the preventive measures for medical emergencies in Dental Office.	IL/CBL	MCQ/SAQ/CP
11)	Discuss the management of Medical emergencies in dentistry	IL/CBL	MCQ/SAQ/CP
12)	Justify importance of sterilization and disinfection in Oral Surgery	IL	MCQ
13)	List the hazards of Cross-infection	IL	MCQ

14)	Apply personal barriers for prevention of cross infection	IL	MCQ
15)	Describe the principles of Exodontia	IL	MCQ/SAQ
16)	Identify complete armamentarium used in Oral and Maxillofacial Surgery and its dynamic	IL/CR	MCQ/OSCE
17)	Assess patient requiring Exodontia independently	IL/CR	MCQ
18)	Differentiate between simple and complex exodontia	IL	MCQ
19)	Classify Impacted Mandibular and Maxillary 3rd molar and maxillary canine	IL	SAQ
20)	Identify the complications of removal of Impacted teeth along with its indications and contraindications	IL	SAQ
21)	Enlist the dentoalveolar injuries and its management	IL	MCQ
22)	Identify the indications of Pre-prosthetic surgery and its role	IL	MCQ
23)	Describe Ridge augmentation and reduction (alveoloplasty) procedures	IL	MCQ
24)	Enumerate pre-prosthetic procedures commonly performed in maxilla and mandible	IL	MCQ/OSCE
25)	List principles of Endodontic surgery and relate periodontal consideration for oral surgery procedures	IL	MCQ
26)	Enumerate the indications of Endodontic Surgery	IL	MCQ
27)	Classify orofacial pain	IL/CBL	MCQ/SAQ
28)	Enumerate the causes of oro-facial pain	IL	MCQ
29)	Formulate differential diagnosis of pain in the oral and maxillofacial region and devise management plan accordingly	IL/CBL	OSCE
30)	**Professionalism and ethics**		
31)	Introduce self to the patient before history taking	CR	Role play
32)	Communicate to the patient confidently & respectfully during history taking and patient examination	CR	OSCE/ Role play
33)	Take consent from the patient before start of treatment	CR	OSCE
34)	Inform patient about the problem list, and treatment	CR/SGD	OSCE/ Role play
35)	Explain clinical procedure to the patient before starting treatment	CR	OSCE/ Role play
36)	Ask correct questions about longitudinal tooth fractures in history taking	CR	Role play
37)	Assess patient requiring exodontia independently	IL/CR	MCQS/SAQS
38)	Formulate proper treatment plan before starting the procedure	IL/SGD	SAQS/OSCE

39)	Obtain written consent and brief parents about the procedure	SGD	OSCE
40)	**Patient safety**		
41)	Explain to the patient, about the use of isolation methods for safety	CR	OSCE
42)	Explain patient to the use of saliva ejector for isolation	CR	OSCE
43)	Show to the patient about use of lead apron & thyroid collar for X-ray taking	CR	OSCE
44)	Demonstrate competency in a stablishing a therapeutic and professional relationship with patients and their families.	CBL	OSCE
45)	Demonstrate competency in using patient-centered interviewing skills in gathering biomedical and psychological information.	Role Play	OSCE
46)	Demonstrate competency in seeking and developing relevant information from other sources, including the patient's family, with patient's consent.	Role Play	OSCE
47)	Inform the patient about relevant medical emergency	CR/CBL	MCQS/SAQS
48)	Ensure sterilization and disinfection of instruments	CR	MCQS/SAQS/OSCE
49)	Apply personal barriers to avoid hazards of cross infection	CR/SGD	MCQS/OSCE
50)	Give early morning appointments to patients with co-morbid	SGD	OSCE
51)	**Communication skill**		
52)	Ask correct questions about history and symptoms of the present complaint	CR	OSCE/Role play
53)	Inform patient about the problem list	CR	OSCE
54)	Inquire relevant questions from the patients for the diagnosis of a case	CR	OSCE
55)	Presentation skill	CR	Competition
56)	Demonstrate competency in communicating effectively with patients.	CBL	OSCE
57)	Demonstrate competency in breaking the bad news to patient.	Role Play	OSCE
58)	Demonstrate competency communicating effectively about ethical issues with patients and their family.	CBL	OSCE
59)	Use effective and efficient communication and management strategies	Role Play	OSCE
60)	Use written record, electronic medical record or other digital technologies while communicating with supervisor and patient.	SGD	OSCE
61)	Take detailed history of patient at chair side with relevant information and evaluation	SGD	MCQS

PROSTHODONTICS			
Edentulism and Biomechanics			

1)	Enumerate the causes of tooth loss and it's complications if untreated	IL	MCQS
2)	Identify partially dentate oral state, mutilated dentition, collapsed arch and edentate oral state.	IL	OSCE
3)	Anticipate challenges in managing edentulous patient.	IL/CR	OSCE
4)	Compare the support mechanism for the natural dentition and complete dentures	IL	SAQ/MCQS
5)	Ascertain the functional responses of occlusion of an edentulous state.	IL	MCQS
6)	Correlate mucosal support with masticatory loads	IL	SAQ/MCQS
7)	Identify features and risk factors associated with parafunctional habits	IL	MCQS
8)	Compare the forces generated by mastication and parafunctional habits.	IL	MCQS
9)	Appreciate the morphological changes due to edentulism	IL/CBL 1	SAQ/MCQS
10)	Correlate the changes in morphological face height and the temporomandibular joints with edentate state.	IL/CBL 1	MCQS
11)	Enumerate the esthetic, behavioral and adaptive responses in an edentulous patient.	IL	SAQ
12)	Identify the type of mandibular border movement according to Posselt's envelop of motion.	IL	OSCE
13)	**Aging and residual ridge resorption**		
14)	Distinguish between normal and abnormal consequences of aging.	IL/CBL 1	SAQ/MCQS
15)	Relate impact of age on the edentulous mouth, teeth and the orofacial structures.	IL/CBL 1	SAQ/MCQS
16)	Assess effects of excessive tooth wear, root dental caries and recession of the gingival tissues on provision of removable prostheses.	CR	SC
17)	Anticipate the problems associated with residual ridge resorption (RRR)	IL/CBL 1	SAQ/MCQS
18)	Associate factors affecting rate and pattern of residual ridge resorption	IL/CBL 1	SAQ/MCQS
19)	Identify residual ridge according to Atwood's classification of residual ridge resorption.	IL/CBL 1	OSCE
20)	Ascertain the basic resorption pattern of the maxilla and mandible	IL/CBL 1	OSCE/MCQS

21)	Plan treatment for patients with residual ridge resorption	IL/CBL 1/CR	SAQS/OSCE/SC
22)	**Nutritional and systemic health considerations**		
23)	Comprehend the problems associated with tooth loss in the elderly and lack of nutrition.	IL/CBL 1	MCQS
24)	Correlate nutritional deficiencies due to local and systemic problems with oral health.	IL/CBL 1	MCQS
25)	Devise a treatment protocol for patients having mucosal conditions	IL	MCQS/OSCE
26)	Assess impacts of oral movement disorders, salivary dysfunction and systemic diseases on adaptive denture experience	IL/CR	MCQS/SC
27)	Enumerate risk factors of malnutrition	IL	SAQ
28)	Correlate nutritional deficiency to oral effects and its impact on denture experience	IL	MCQS
29)	**Sequelae of Removable Prostheses**		
30)	Examine the dentures in the oral environment	CR	OSCE
31)	Appreciate the facial and denture changes that may occur in old denture wearers.	IL/CR	OSCE
32)	Categorize direct and indirect sequelae caused by removable prosthesis.	IL/CBL	SAQ/MCQS
33)	Identify different types of denture stomatitis.	IL/CR/CBL	OSCE
34)	Manage denture stomatitis.	IL/CBL/CR	SAQ/MCQ/OSCE
35)	Identify flabby ridge.	IL/CR/CBL	OSCE
36)	Ascertain the effects of flabby ridge on denture construction.	IL/CBL/CR	VIVA/OSCE
37)	Identify denture irritation hyperplasia.	IL/CBL/CR	OSCE
38)	Diagnose denture related pathologies.	IL/CBL/CR	MCQS/SC/OSCE
39)	Devise treatment protocol for denture related pathologies	IL	SAQ/OSCE
40)	Manage denture related traumatic ulcers.	IL/CR	OSCE
41)	List complications related to xerostomia in denture wearing patients	IL/CBL	SAQ

42)	Identify the features and risk factors associated with burning mouth syndrome.	IL	SAQ/MCQS
43)	Manage a gag reflex patient.	CR	OSCE
44)	Identify risk factors of atrophy of masticatory muscles.	IL	MCQS
45)	Diagnose a patient having atrophic masticatory muscles.	CBL	MCQS
46)	Associate reduced salivary flow rate with elderly patients.	IL	MCQS
47)	Devise preventive strategies for controlling the sequelae of wearing complete dentures.	IL	SAQ/MCQS
48)	**Management of geriatric patients**		
49)	Define the term Gerodontology	IL	SAQ/VIVA
50)	Anticipate the problems associated with the geriatric patients.	IL	MCQS
51)	Devise management strategies for the dental care of the elderly in light of the oral diseases, systemic disorders, psychological and social factors.	IL	MCQS
52)	**Complete denture equation**		
53)	Define basic terminologies of complete denture prosthesis	SGD	MCQS
54)	Justify the need of complete dentures	SGD	MCQS
55)	**Applied Anatomy**		
56)	Identify morphological characteristics of denture bearing areas	IL/CR	OSCE
57)	Differentiate between anatomic landmarks and limiting structures pertaining to complete dentures	IL/CR	OSCE
58)	Correlate limiting structures to denture borders	IL/CBL	MCQS /OSCE
59)	Correlate the action of muscles in limiting structures on denture stability	IL/CBL	MCQS/OSCE
60)	**Preprosthetic Mouth preparation**		
61)	Prepare a patient for receiving prosthesis.	CR/CBL	SC/OSCE
62)	Outline protocols in chronological order for preparing a patient for prosthesis	IL/CBL	SAQ/OSCE
63)	Manage denture related infections before prosthesis fabrication.	IL/CBL/CR	SAQ/MCQS/OSCE

64)	Follow protocols of denture usage /alteration in patients with denture related infections.	CR	OSCE
65)	Outline measures to manage unfavorable morphological characteristics that may compromise denture construction	IL/CBL	SAQ/MCQS
66)	Justify use of surgical procedures to optimize denture bearing areas.	IL/CBL	MCQS/Viva
67)	**Applied Dental Materials**		
68)	Avoid damage to oral and paraoral structures during clinical procedures.	CR	OSCE
69)	Select biomaterials for patients having compromised oral tissues.	CR/SGD	MCQS/OSCE
70)	Apply properties of biomaterials for different procedures of complete denture construction.	CR/SGD	MCQS/OPD
71)	**Denture Adhesives**		
72)	Select patients requiring adjunctive retention through the use of denture adhesives.	Self Study	MCQS
73)	Rationalize the use of denture adhesives in complete dentures.	Self Study	MCQS
74)	Enumerate the mode of action of denture adhesives.	Self Study	MCQS
75)	**Denture Cleansers**		
76)	Enumerate the ideal requirements of denture cleansers	Self Study	MCQS
77)	Brief regarding the mechanical techniques of cleaning dentures	Self Study	MCQS
78)	List chemical denture cleansers	Self Study	MCQS
79)	Outline mechanism of action of denture cleansers	Self Study	MCQS
80)	Anticipate adverse effects to denture cleansers.	Self Study	MCQS
81)	**Complete Denture Impressions**		
82)	Identify macroscopic anatomy of supporting and limiting structures of maxilla clinically and on cast.	IL/CR	OSCE
83)	Identify macroscopic anatomy of supporting and limiting structures of maxilla clinically and on cast.	IL/CR	OSCE
84)	Identify muscles dictating sulcus depth in various oral regions pertaining to denture flanges.	IL/CR	MCQS/OSCE
85)	Recognize the effect of modiolus on denture stability.	IL/CR	MCQS/OSCE

86)	Apply muscle actions on oral and paraoral influences to denture function.	IL/CR	MCQS/OSCE
87)	Select appropriate preliminary impression material for different oral conditions.	CR	OSCE
88)	Apply factors of retention in complete denture construction.	IL/CR	MCQS/OSCE
89)	Manage a diseased oral cavity for impressions.	IL/CR	MCQS/OSCE
90)	Record Preliminary Impression for Edentulous Patient using alginate and composition by apply general principles and objectives of impression making.	CR	OSCE
91)	Select appropriate gypsum product for pouring impressions of different nature.	CR	OSCE
92)	Pour an impression using soft and hard plaster.	CR	OSCE
93)	Compare different impression Techniques according to residual ridge and material.	IL/CR	SAQ/MCQS/OSCE
94)	Select appropriate impression technique according to anatomical factors of residual ridge.	IL/CR	SAQ/MCQS/OSCE
95)	Design custom tray according to the selected impression technique	IL/CR	SAQ/MCQS/OSCE
96)	Construct a custom tray for secondary impression using self-cure acrylic resin for different impression techniques.	CR	OSCE
97)	Refine a custom tray.	CR	OSCE
98)	Select a method of reducing pressure on soft tissues through custom tray.	IL/CR	MCQS/OSCE
99)	Select appropriate final impression material and method of border molding and wash impression as per the impression technique utilized.	IL/CR	MCQS/OSCE
100)	Perform border molding procedure with green stick.	CR	OSCE
101)	Outline procedure of one step border molding with polyether impression material.	IL	SAQ
102)	Record Final Impression for edentulous patient considering the oral and para oral musculature and oral physiology.	CR	OSCE
103)	Correlate the anatomical landmarks seen clinically with an impression.	CR	OSCE
104)	Justify the use of Boxing-In technique.	IL/CR	MCQS/VIVA

105)	Identify favorable and unfavorable posterior palatal form for posterior palatal seal.	CR	OSCE
106)	Mark anterior and posterior vibrating line clinically.	CR	OSCE
107)	Carve post dam area on the master cast.	CR	OSCE
108)	Select appropriate special impression technique for variants in mucosal topography.	IL/CR	SAQ/MCQS
109)	Outline steps of special impression techniques for different conditions	IL	SAQ
110)	Rationalize the use of special impression techniques according to given oral condition.	IL	SAQ/MCQS
111)	Give instructions for both open and closed mouth impression techniques.	CR	OSCE
112)	Identify impression errors.	CR	OSCE
113)	Rectify impression errors.	CR	OSCE
114)	**Posterior palatal Seal, Baseplates and occlusal rims**		
115)	Identify anterior and posterior vibrating lines	IL/CR	OSCE
116)	Outline ways of marking the anterior and posterior vibrating lines	IL/CR	SAQ/MCQS
117)	Mark anterior and posterior vibrating lines	CR	OSCE
118)	Appraise the effect of post dam area on denture retention	IL/CR	MCQS/OSCE
119)	Correlate soft palate classification with post-dam area	CR	OSCE
120)	Select a proper denture base material for different edentulous patients.	CR	MCQS/OPD
121)	Assess causes of imperfections in denture bases.	CR	OSCE
122)	Compare acrylic resin and porcelain teeth in dental prostheses.	SGD/CR	SAQ/MCQS
123)	Identify the surfaces of a denture	CR	OSCE
124)	Fabricate a trial denture base (TDB) with a knowledge regarding materials and basic requirements.	IL/CR	OSCE
125)	Justify the use and design of occlusal rims.	SGD/CR	MCQS/Viva
126)	Fabricate occlusal rims according to guidelines.	CR	OSCE/OPD

127)	Outline procedures to reinforce wax occlusal rim.	SGD	OSCE
128)	**Maxillomandibular Relations**		
129)	Compare an arbitrary facebow and kinematic facebow.	IL	SAQ/MCQS
130)	Justify the use of facebow record in complete denture construction.	IL	SAQ/MCQS/Viva
131)	Take an orientation record using Hanau Face bow.	CR	OSCE/OPD
132)	Transfer the face bow record to Hanau semi adjustable articulator.	CR	OSCE/OPD
133)	Set condylar guidance and Bennett angle using arbitrary method.	CR	OSCE
134)	Enumerate guidelines for fabrication and adjusting occlusal rims intra-orally	IL	SAQ
135)	Adjust the occlusal rim according to labial and buccal fullness.	CR	OSCE/OPD
136)	Analyze the guide for esthetics in light of degenerative changes occurring in the skin.	IL/CR	MCQS/OSCE
137)	Mark midline, low and high lip line, incisal show and canine line.	CR	OSCE
138)	Estimate the level of occlusal plane using Fox's plane.	CR	OSCE/OPD
139)	Outline other methods of estimating occlusal plane.	IL	SAQ/MCQS
140)	Classify maxillomandibular records.	IL	SAQ/MCQS/OSCE
141)	Enumerate the methods to record different maxillomandibular relations	IL	SAQ/MCQS/SC
142)	Outline sequence of taking maxillomandibular relation with reasoning	IL	SAQ/MCQS/VIVA
143)	Determine the rest vertical dimension using mechanical and physiological methods.	CR	OSCE/OPD
144)	Compute freeway space by determining rest vertical and occlusal vertical dimension.	CR	OSCE/OPD
145)	Record centric relation in an edentulous patient.	CR	OSCE/OPD

146)	Apply concepts of mandibular movements in centric relation record.	CR	MCQS/OSCE
147)	Enumerate different factors which influence and regulate mandibular movements.	IL	MCQS
148)	Justify the use of centric relation as a starting point for fabricating complete denture occlusion.	IL	MCQS/VIVA
149)	Diagnose cases with improper occlusal vertical dimension	CBL/CR	MCQS/SC
150)	List the consequences of improper occlusal vertical dimension	IL/CR	SAQ/MCQS/OSCE
151)	Devise management protocol for patients having improper occlusal vertical dimension	IL/CR	MCQS/SC/VIVA
152)	**Articulators** *(Detailed Occlusion will be taught at this stage with initial introductory lectures by Orthdodontics Department, while last two by Prosthodontics department)*		
153)	Classify the Articulators.	IL	SAQ/MCQS
154)	Identify different types & parts of an articulator.	CR	OSCE
155)	Differentiate between an arcon and a non arcon articulator.	IL/CR	MCQS/VIVA
156)	Program the articulator by adjusting condylar guidance through a protrusive record.	CR	OSCE
157)	**Teeth Selection and Arrangement in Complete Dentures**		
158)	Select anterior teeth based on aesthetics and function.	IL/CR	SAQ/OSCE
159)	Select posterior teeth based on interarch space, residual alveolar ridges and functional needs.	IL/CR	SAQ/OSCE
160)	Identify different posterior tooth molds.	CR	OSCE
161)	Formulate the guides for preliminary arrangement of anterior teeth.	IL/CR	OPD/OSCE
162)	Relate incisive papilla with anterior teeth placement	IL/CR	SAQ/MCQS/OPD
163)	Apply the role of musculature and aesthetics on anterior tooth arrangement.	IL/CR	MCQS/OSCE
164)	Mark the guidelines for tooth set up on maxillary and mandibular casts	IL/CR	OSCE

165)	Apply knowledge of tooth setup guidelines	IL/CR	MCQS/OSCE
166)	Set up the anterior teeth in wax for Class I orthognathic relationship with canine Class I canine relationship.	CR	OSCE
167)	Create appropriate overjet and overbite according to case.	CR	OSCE
168)	Measure the overjet and overbite clinically as well as on articulator.	CR	OSCE
169)	Mark tentative bucco-lingual placement of posterior teeth on the cast.	CR	OSCE
170)	Set up the posterior teeth in wax for Class I orthognathic relationship with Class I molar relationship.	CR	OSCE
171)	Apply role of musculature and residual ridge on posterior tooth set up.	IL/CR	MCQS/OSCE
172)	Anticipate problems of setting teeth out of the neutral zone.	IL	MCQS
173)	Correlate the wax occlusal rim with the guidelines marked on the cast.	IL/CR	MCQS/OSCE
174)	Arrange anatomical teeth to a balanced occlusion.	CR	OSCE
175)	Ascertain the procedure for arranging maxillary or mandibular teeth first with justification.	IL/CR	MCQS/VIVA
176)	**Wax Try-In Appointment**		
177)	Outline the sequence protocol for trial denture	IL/CR	SAQ/MCQS/SC
178)	Assess retention and stability of trial denture bases	CR	OSCE
179)	Manage over and under extensions of denture bases	IL/CR	OSCE
180)	Assess positioning of teeth in relation to neutral zone	CR	OSCE
181)	Verify maxillomandibular relations	IL/CR	OSCE
182)	Outline protocol for improper centric relation	IL/CR	OSCE
183)	Correlate facial and functional harmony with anterior teeth setup.	CR	OSCE
184)	Harmonize anterior teeth with sex, personality and age of the patient.	CR	OSCE
185)	Co-relate the esthetics and incisal guidance	IL/CR	SC/VIVA
186)	Justify the patient acceptance in arrangement of anterior teeth	IL/CR	SC/VIVA
187)	Assess phonetics at try in appointment	IL/CR	OSCE

188)	Appraise the importance of closest speaking space	IL/CR	OSCE/MCQS
189)	Assess closest speaking space	IL/CR	OSCE
190)	Relate different sounds to teeth positioning	IL/CR	OSCE/MCQS
191)	Relate denture base contours with phonetics	IL/CR	OSCE/MCQS
192)	Give instructions at each clinical procedure appointment	CR	OSCE
193)	Retake the maxillomandibular relation if required	CR	OSCE
194)	Assess posterior open bite	CR	OSCE
195)	List causes of posterior open bite at try-in stage	IL/CR	SC/VIVA
196)	Stabilize the baseplates for try in procedures	CR	OSCE
197)	**Laboratory Procedures**		
198)	Perform the final wax up, carving and festooning in wax.	CR	OSCE
199)	Invest the denture using plaster in a flask.	CR/SGD	OSCE
200)	Apply appropriate separating medium in different stages of flasking and packing.	CR	OSCE
201)	Pack the mold with acrylic resin in its proper stage of setting.	CR	OSCE
202)	Execute trial packing procedure.	CR	OSCE
203)	Use hydraulic and manual press for packing procedures.	CR	OSCE
204)	Cure the dentures in manual water baths.	CR	OSCE
205)	Select appropriate curing cycle considering time restraints and needs.	CR/SGD	OSCE
206)	Deflask the dentures without damage Or fracturing.	CR	OSCE
207)	Perform gross and fine finishing of the dentures with correct selection of burs and motor speed chronologically.	CR	OSCE
208)	Polish the dentures.	CR	OSCE
209)	Adjust occlusion according to BULL's rule on the cast and clinically.	CR	OSCE
210)	**Delivery of Dentures and Postinsertion**		
211)	Critically analyze the final dentures for faults.	IL/CR	OSCE
212)	Eliminate the errors of the basal surface of denture.	CR	OSCE

213)	Outline sequence of insertion protocols for complete dentures.	IL/CR	VIVA
214)	Evaluate retention and stability of dentures clinically.	CR	OSCE
215)	Identify pressure areas during insertion using Zinc oxide or pressure indicating paste.	IL/CR	OSCE
216)	Enlist different pressure indicating mediums	IL	MCQS/VIVA
217)	Interpret pressure indicating paste findings	IL/CR	SAQ/MCQS/OSCE
218)	Eliminate the errors of occlusion in centric relation.	IL/CR	OSCE
219)	Verify the centric relation on insertion.	CR	OSCE
220)	Enlist indications for remounting of dentures	IL	SAQ/MCQS
221)	Give post insertion instructions to the patient.	CR	OSCE
222)	Evaluate the patient at the first post insertion appointment.	CR	OSCE
223)	Outline sequence of post insertion protocol with justification	IL/CR	SAQ/MCQS/VIVA/SC
224)	Devise appropriate treatment for pressure spots, rocking of dentures, over and under extension of flanges.	IL	SAQ/MCQS/SC
225)	**Retention and Stability**		
226)	Determine the factors involved in retention of complete dentures.	IL	MCQS/SAQ
227)	Classify factors of retention	IL	MCQS
228)	Enumerate factors that aid retention in patients with compromised morphology	IL	MCQS
229)	Relate factors of retention with different areas of complete dentures	IL	MCQS
230)	Enumerate factors that enhance stability of complete dentures	IL	MCQS/SAQ
	Treatment Planning		
231)	Assess the different treatment options for edentulous patients	IL/CBL	SAQ/MCQS
232)	Assess examination charts and records	CR/SGD	OSCE
233)	Obtain comprehensive history of an edentate patient.	CR	OSCE

234)	Evaluate general physical observations affecting diagnosis.	CR	OSCE
235)	Perform extra oral and intraoral examination of an edentulous patient.	CR	OSCE
236)	Rationalize the importance of intraoral and extra oral features in denture construction	IL/CR/SGD	MCQS/OSCE
237)	Justify the use of radiographs in edentate patient.	IL/CR	OSCE
238)	Analyze diagnostic casts.	CR	OSCE
239)	Rationalize the use of diagnostic cast and diagnostic maxillomandibular relation.	IL/CR	MCQS/OSCE
240)	Interpret diagnostic data with its influence on denture construction.	IL/CR	MCQS/SAQ/OSCE
241)	Correlate biomechanical considerations to denture construction.	CR	SAQ/MCQS/OSCE
242)	Plan treatment for the complete denture patient.	CR/CBL	MCQS/OSCE/SC

OCCLUSION: (Dentate) – Integrated with other specialties

Detailed Occlusion will be taught after maxillomandibular relations in complete dentures with initial introductory lectures by Orthdodontics Department, while last two by Prosthodontics department- pertaing to complete denture occlusion)

243)	Differentiate between static and dynamic occlusion.	IL	MCQS
244)	Relate different determinants of occlusion.	IL	MCQS
245)	Correlate centric relation, centric occlusion and maximum intercuspation.	IL	MCQS
246)	Correlate temporomandibular joint, musculature and teeth.	IL	MCQS
247)	Measure overjet and overbite clinically	CR	MCQS/OSCE
248)	Record maximum intercuspation	CR	MCQS/OSCE
249)	Classify molar relationship according to angle's classification	IL	MCQS
250)	Compare canine guidance and group function occlusion schemes	IL	MCQS
251)	Identify functional and non-functional cusps.	IL/CR	MCQS/OSCE
252)	Differentiate between working and non-working side movements.	IL	MCQS

253)	Associate Bennett angle and Bennett movement/side shift with laterotrusive movement.	IL	MCQS
254)	Classify movements of the TMJ.	IL	MCQS
255)	Differentiate between border movements and intraborder movements.	IL	MCQS
256)	Identify occlusal scheme clinically.	IL/CR	MCQS/OSCE
257)	Compare physiological and pathological occlusion.	IL	MCQS
258)	Differentiate between static and dynamic occlusion.	IL	MCQS
	Complete Denture Occlusion		
259)	List the pre requisites for arranging teeth in balanced occlusion and articulation	IL	SAQ
260)	Differentiate occlusal schemes for natural and artificial occlusion	IL	MCQS
261)	Enumerate the characteristics of balanced occlusion and articulation	IL	SAQ
262)	Justify the use of compensating curves and tilt in occlusal plane to attain balanced occlusion.	IL	MCQS/VIVA
263)	Correlate incisal guidance, compensating curves, occlusal plane, condylar guidance and cuspal inclines with each other.	IL/CR	SAQ/MCQS
264)	Separate anterior and posterior guidance components	IL	SAQ
265)	Compare balanced occlusion, monoplane occlusion and lingualized occlusion.	IL	SAQ/MCQS
266)	Adjust the protrusive, working and balancing contacts on a semi adjustable articulator.	CR	OSCE
	Immediate Dentures		
267)	Devise a plan for patients affected by multiple co-morbidities.	IL	SAQ/MCQS
268)	Select a patient for immediate denture treatment.	IL	SAQ/MCQS
269)	Compare conventional and interim immediate denture.	IL	SAQ/MCQS
270)	Anticipate problems associated with immediate dentures.	IL	SAQ/MCQS
271)	Convince a patient for immediate dentures.	CR	OSCE

272)	Plan a treatment for immediate denture patient in phases.	IL	SAQ/MCQS
273)	Sequence the clinical and laboratory steps involved in the fabrication of immediate dentures.	IL	SC
274)	Outline steps of teeth setup specific for immediate dentures.	IL	SAQ/MCQS
275)	Give post insertion instruction to a patient of immediate denture.	IL/CR	OSCE
	Single Dentures		
276)	Outline the reasons and features of combination syndrome.	IL	SAQ/MCQS
277)	Diagnose combination syndrome	IL	SAQ/MCQS/SC
278)	Anticipate the problems with single dentures.	IL	SAQ/MCQS
279)	Rationalize tooth preparation procedures for single dentures.	IL	SAQ/MCQS
280)	Outline steps of setup of teeth for single dentures.	IL	SAQ/MCQS
	Relining and Rebasing		
281)	Differentiate between relining and rebasing of dentures.	IL	SAQ/MCQS
282)	Diagnose patients for relining or rebasing.	IL	MCQS
283)	Justify the use of relining and rebasing.	IL	MCQS
284)	Outline steps of denture preparation before impression taking for relining and rebasing.	IL	SAQ/MCQS
285)	Classify impression techniques for relining and rebasing.	IL	MCQS
286)	Appraise necessary steps for closed mouth reline technique.	IL	MCQS
287)	Enumerate different relining techniques.	IL	SAQ/MCQS
288)	Rationalize the use of denture lining materials according to chemical composition, period of usage and required consistency.	IL	MCQS
289)	Compare the properties of plasticized acrylics versus silicone rubber soft liners.	IL	SAQ/MCQS
290)	Select appropriate relining material according to case.	IL	MCQS

	Copy Dentures		
291)	Rationalize treatment by copy dentures.	IL	SAQ/MCQS
292)	Diagnose a patient for copy denture prescription.	IL	SAQ/MCQS/
293)	Outline different copy denture fabrication technique	IL	SAQ/MCQS
	Communication Skills		
294)	Demonstrate competency in communicating effectively with patients.	CBL	OSCE
295)	Demonstrate competency in breaking the bad news to patient.	Role Play	OSCE
296)	Demonstrate competency communicating effectively about ethical issues with patients and their family.	CBL	OSCE
297)	Use effective and efficient communication and management strategies	Role Play	OSCE
298)	Use written record, electronic medical record or other digital technologies while communicating with supervisor and patient.	SGD	OSCE

ACADEMIC SCHEDULES

Weekwise schedule of Module X (Endodontic) **Operative Dentistry**			
Week no.	**Lecturer 1**	**Lecturer 2**	**Lecturer 3**
W/1	Pulp system-1 **(LO 1-6)**	Classification of pulp & periapical disease **LO (24)**	Pulp system-2 **LO (7-12)**
W/2	Vital pulp therapies-1 **LO (13-17)**	Diagnosis of pulp & periapical lesions **LO (25-30)**	Vital pulp therapies-2 **LO (18-19)**
W/3	Endodontic Infection **LO (20-23)**	Management of periapical lesion **LO (31-36)**	**Class Test** **LO (1-19)**
W/4	Endodontic instruments **LO (42)**	Perio- endo lesion **LO (37--39)**	Isolation in endodontic **LO (54)**
W/5	Endodontic Access & length determination **LO (58-59)**	**Class Test** **LO (24-36)**	Cleaning& shaping of canal **LO (60-62)**

W/6	Irrigants **LO (63)**	Endo-dontic emergencies **LO (40-41)**	Intracanal medicaments **LO (64-66)**
W/7	**Class Test** **LO (20-23, 42,54)**	Endodontic radiology **LO (43-51)**	Obturation materials **LO (67--68)**
W/8	Obturation techniques **LO (67-69)**	Endodontic Anesthesia **LO (52-53)**	Restoration of RCT treated teeth **LO (70)**
W/9	Endodontic mishaps-1 **LO (71)**	**Class Test** **LO (37-53)**	Endodontic mishaps-2 **LO (72)**
W/10	Non-surgical retreatment **LO (73-74)**	Endodontic surgery-1 **LO (75-76)**	Endodontic outcome **LO (78)**
W/11	Longitudinal fractures **LO (79-82)**	Endodontic surgery-2 **LO (77)**	**Class Test** **LO (58-70)**
W/12	**Theory Examination**	**OSCE & Viva Examination**	**Class Test** **LO (71-82)**

Weekly schedule of Module X **Orthodontics**		
Week no.	**Lecturer 1**	**Lecturer 2**
Week – 1	Introduction to Orthodontics (1,2,35,36,71,72)	Anatomy of head and neck (3)
Week – 2	**GROWTH** Growth theories I (4-7,11-13)	Growth theories II (4-7,11-13)
Week – 3	• Types of bone growth • Fields, sites and centers (7-9)	Arch development (16-34)
Week – 4	**PRESENTATIONS** Arches pouches, face, tongue, palate, teeth, cranial vault (10)	Mandibular growth (14,15)
Week – 5	Maxillary growth (14,15)	Growth rotations1 (17,18)
Week – 6	Growth rotations II (17,18)	Age determination (58-60)

Week – 7	Assessment	Age changes
Week – 8	Development of dentition and occlusion I (19-22)	Development of dentition and occlusion II (25,27,30)
Week – 9	Occlusion I (35,36,71,72)	Occlusion II (37,38.50-53,65-68)
Week –10	Occlusion III (39-49)	IOTN
Week -11	Assessment	Syndromes Presentations I (54-57)
Week -12	**Theory Examination** **OSCE & Viva Examination**	

Weekly schedule of Module X **OMFS**		
Week	**Lecture 1**	**Lecture 2**
Week – 1	History taking & Pre-operative Evaluation LO: 9	General Anesthesia and pre-surgical assessment LO: 1, 3
Week – 2	Conscious Sedation LO: 2	Local Anesthesia assessment and technique LO: 1, 3
Week – 3	Complications of Local Anesthesia LO:3	CBL/PBL Case presentation
Week – 4	Management of Acute Post- operative Pain LO: 11	Oro-Facial Pain & Management LO: 27,28, 29
Week – 5	Principles of Basic Flap design LO: 5, 6	Principles of Basic Flap design LO: 5,6
Week – 6	Cross infection control & Sterilization LO: 12, 13, 14	**Class test**
Week – 7	Prevention of Medical Emergencies in Dental office LO: 10,	Prevention of Medical Emergencies in Dental office LO: 10
Week – 8	Management of Medical Emergencies in Dental office LO: 11	Basic & Complex Pre-prosthetic Surgery & Dentoalveolar LO: 22, 23, 24
Week – 9	Basic & Complex Pre-prosthetic Surgery & Dentoalveolar LO: 22, 23, 24	Principles of Exodontia LO:15- 20
Week – 10	Complex Dentoalveolar Surgery LO: 21	Post-operative pain and complications LO: 11
Week -11	Class test	Principles of Endodontic Surgery (Apicectomy) LO: 25,26
Week -12	**Theory Examination** **OSCE & Viva Examination**	

	PROSTHODONTICS		
	LECTURE TOPICS	**LOs**	**RESOURCES**
	Module X		
Week 1	Evaluation of a Prosthodontic Patient (History,Examination,Diagnostic records)	211-214,216	Book 1* Chap 5
	Diagnosis and Planning (Analysis, Abutment selection)	217-221	Book 2* Chap 2
	Types of Prosthesis/ Kennedy Classification		Book 4* Chap 3
Week 2	Case selection (Edentulism)	222	
	Mouth preparation and Phases of treatment	53-58	Book 1* Chap 5
	Applied anatomy	**May be Friday**	Book 2* Chap 1
Week 3	Biomechanics	1-12	Book 1* Chap 1
	Aging	13-15	Book 1* Chap 3
Week 4	Systemic diseases and Nutrition Care	21-26	Book 1* Chap 2, Book 2* Chap 2
	Residual ridge resorption	16-20	Book 2* Chap 1
Week 5	Sequelae of Removable dentures	27-43	Book 1* Chap 4
	Primary impressions	70-80	Book 1* Chap 8
	Test		
Week 6	Secondary impression and PPS	82-101,206-210	Book 1* Chap 4, Book 2* Chap 8
	Special Impression techniques	96-99	MacGregor Chap 5
	Posterior Palatal Seal	**videos**	
Week 7	MMR 1 (Orientation Relation, Articulators)	115-128	Book 1* Chap 9
	MMR II (Vertical and horizontal jaw relation)	129-141	Book 1* Chap 9
Week 8	Artificial tooth selection and tooth arrangement guides	142-159	Book 1* Chap 10
	Try-In And Phonetics	160-179	Book 1* Chap 11 &15
	Articulators		Book 2* Chap 10
Week 9	Delivery of Dentures/ Post insertion Management	192-205	Book 1* Chap 12
	Natural occlusion	223-238	Book 3* Chap 4
	Test		
Week 10	CD Occlusion 1	239-242	Book 1* Chap 10
	CD Occlusion 2	243-246	Book 1* Chap 10
	Relining and Rebasing	261-270	Book 1* Chap 14
Week 11	Copy Dentures	271-273	Hand -out
	Complete denture scenarios		
	Single Dentures	256-260	Book 1* Chap 6 & 13
Week 12	**Theory Examination** **OSCE & Viva Examination**		

MODULE XI

(Restorative Dentistry, Orthodontic diagnosis, Infections and diseases, Partial Dentulism)

At the end of the module, students should be able to:

S.No	Learning Objectives	Teaching strategy	Assessment tool
1.	Define Dental Caries	IL/SGD	Viva
2.	Recall classification of carious lesions according to GV. Black	IL	BCQs
3.	Memorize Graham Mount Classification	IL	BCQs/SAQs
4.	Debate causes of dental caries	IL/CBL	BCQs/SAQs
5.	Identify caries risk factors	IL/CBL	BCQs/ Viva
6.	Classify Dental caries by ICDAS	IL/CBL	BCQs/SAQs
7.	Perform clinical examination and diagnosis of dental caries	IL/SGD/ CBL	OSCE
8.	**Professional and Ethics**		
a.	Ask relevant questions to identify cause of dental caries	CR	Role play
b.	Explain preventive treatments for dental caries to the patient	CR	SAQs
c.	Discuss the risk factors for caries to the patient	CR	OSCE/ SAQs
d.	Communicate properly to patient to take consent before treatment	CR	Role play
e.	Use NICE guidelines for patient recall interval	CR	SAQs
f.	Give post-filling instruction to the patient	CR	Role play
9.	Know new tools for caries detection	IL	BCQs/SAQs
10.	Identify and diagnose different types of caries and plan risk based caries management and describe models of caries management	IL/SGD	BCQs/SAQs
11.	Explain preventive treatments for dental caries to the patient	IL/CBL	BCQs/SAQs/ Viva
12.	Apply noninvasive treatments for dental caries	IL/CBL	BCQs/SAQs/ Viva
13.	Discuss the risk factors for root caries to patient	IL	SAQs
14.	Apply preventive and restorative treatment for root caries	IL/CR	SAQs
15.	Know the importance of dental record and demonstrate documentation of history taking and examination finding	IL	BCQs
16.	Identify Instruments used in restoration and demonstrate different instrument grips	CR	OSCE
17.	**Patient safety**		

a.	Apply method of isolation in restorative dentistry	IL/SGD	OSCE
b.	Perform rubber dam application	CR	OSCE
18.	Describe steps of cavity preparation for direct restoration	IL	BCQs/SAQs
19.	Recall factors affecting cavity preparation	IL	BCQs/SAQs
20.	Define and discuss outline form, resistance and retention form and convenience form	IL	BCQs/SAQs
21.	Describe methods of caries removal	IL	BCQs/SAQs
22.	Apply principles of preparation on patient requiring direct restoration	IL	BCQs/SAQs
	Operative and Dental material integration		
23.	*Review the composition of amalgam*	IL	BCQs/SAQs
24.	*Establish the significance of gamma-2 phase*	IL	BCQs/ Viva
25.	*Know the advantages and disadvantages of amalgam*	IL	BCQs/SAQs
26.	*Distinguish between different types of amalgam according to their composition and shape*	IL	BCQs
27.	**Patient safety**		
a.	Aware about mercury hazards and use & dispose it according to OSHA guidelines	IL/CR	SAQs
b.	Discuss methods of Sterilization and Disinfection and demonstrate methods of cross infection control in OPD	IL/CR	BCQs/SAQs
28.	Apply principles of cavity preparation for Class I, II,& V amalgam restorations	CR/SGD/ CA	BCQs/SAQs /OSCE
29.	Describe complex restorations for amalgam and their indications	IL	BCQs
30.	List material used for complex restoration and perform Nayyar core and compo core	IL/CR	BCQs /Viva
31.	Classify dentinal pins and discuss their indications and preparation. Execute accessory means of retention & resistance	IL/CR	BCQs/ Viva
32.	Memorize significance of amalgam bonding	IL/CR	BCQs/SAQs
33.	Perform the procedure of amalgam bonding	IL/CR	BCQs/SAQs
34.	Differentiate between cavity liners, sealers and bases. Recall their chemistry and classification	IL/SGD	SAQs/OSCE
35.	Discuss remaining dentin thickness and apply lining to protect the pulpal floor of the cavity	CR	OSCE
36.	Explain different steps of amalgam placement	SGD/CR	OSCE

37.	Accomplish finishing and polishing of amalgam restorations	SGD/CR	BCQs/SAQs /OSCE
38.	Define Adhesive Dentistry	IL	BCQs
39.	State the Principles of Adhesion to enamel & dentine	IL	BCQs/SAQs
40.	Explain the process of etching to enamel and dentine	IL	BCQs/SAQs/ OSCE
41.	Enumerate the factors affecting adhesion to enamel and dentine	IL	SAQs/ Viva
42.	Classify bonding systems on various basis	IL	BCQs/SAQs/ viva
43.	Differentiate between dry and wet bonding	IL	BCQs/SAQs
44.	**Operative and Dental material integration**		
45.	*Memorize composition of dental composites*	*IL*	*BCQs*
46.	*Explain advantages & disadvantages of posterior composite as a restorative material*	*IL*	*BCQs/SAQs*
47.	*Describe the indications of posterior composite*	*IL*	*BCQs/SAQs*
48.	Execute clinical steps for Class III & Class IV for resin composite restorations	IL/CR	BCQs/SAQs/ OSCE
	Operative and Community Integration		
49.	*Know how to apply fissure sealant*	IL/CR/SGD	BCQs
50.	*Use of preventive resin restoration technique*	IL/CR/SGD	BCQs/SAQs
51.	*Distinguish between fissure sealant and preventive resin restorations*	IL	BCQs/SAQs/ Viva
52.	Perform placement of posterior composite restoration in Class I, II	IL/CR	OSCE
53.	Establish tight proximal contact for posterior composite restoration	IL/CR	OSCE
54.	Recognize the importance of C-factor and discuss curing shrinkage and stresses	IL	BCQs/SAQs
55.	Know how to decrease C-factor to improve longevity of composite restoration	IL/CR	BCQs/SAQs/ OSCE
56.	Apply various matrix systems for Class II, III, IV	IL/Skill Lab	OSCE
57.	Explain the principles behind bonded based and snow plough techniques	IL	BCQs/SAQs/ Viva

58.	Identify the instruments and materials used for finishing and polishing of composite restorations and enlist various types of abrasives used in operative dentistry	IL/CR	OSCE
59.	Perform finishing & polishing of composite fillings	IL/SGD/CR	OSCE
60.	**Professional and ethics**		
a.	Give post filling instruction to the patient	CR	OSCE
61.	List the etiology of non-carious cervical lesions	IL	BCQs/SAQs
62.	Use different restorative materials for non-carious cervical lesions	IL/CR	OSCE
63.	State the causes of discoloration and suitable treatment option for managing discoloration	IL	BCQs/SAQs
64.	Enlist the Indications and contraindications of bleaching and other esthetic procedures	IL	BCQs/SAQs
65.	Know the mode of action of bleaching agent and other esthetic procedures	IL	BCQs/SAQs
66.	Plan bleaching of endodontically treated teeth	IL	BCQs/SAQs
67.	Explain bleaching of vital teeth	IL	BCQs/SAQs
68.	Factors affecting both the in-office and at-home bleaching	IL	BCQs/SAQs
69.	Propose the procedure of microabrasion and macroabrasion	IL	BCQs/SAQs/OSCE
70.	Write down the indications of veneers	IL	SAQs
71.	Explain veneer procedure to patient	IL/CR	BCQs/SAQs/OSCE
72.	Enlist materials used for veneers	IL	SAQs
73.	Demonstrate tooth preparation for veneers	IL/CR	OSCE
74.	Discuss indications and contraindications of indirect restoration and distinguish between inlay and onlay	IL	BCQs/SAQs
75.	Describes steps of tooth preparation for indirect restoration and perform tooth preparation of inlay and onlay	IL/CR	BCQs/SAQs/OSCE
76.	Execute cementation of inlay and onlay	IL	BCQs
77.	Discuss the various core materials	IL/CR	BCQs/SAQs
	Operative and Prosthodontics integration		
78.	*Discuss the indications of dental posts*	*IL/CR*	*BCQs/SAQs*
79.	*Describe designs of dental posts and types*	*IL/CR*	*BCQs/SAQs/*

			OSCE/ Viva
80.	*Perform preparation of dental post in canal*	*IL/CR*	*BCQs/SAQs/ OSCE*
81.	*Execute cementation of post in canal of tooth*	*IL/CR*	*BCQs/SAQs OSCE*
82.	*Discuss mechanical and chemomechanical methods of fluid control*	*IL*	*BCQs/SAQs*
83.	*Summarize steps of placement of retraction cord*	*IL/CR*	*BCQs/SAQs*
84.	*Recommend the use of CAD/CAM in dentistry*	*IL*	*BCQs/SAQs/ OSCE*
85.	**Communication skill**		
a.	To be able to communicate with patients, listen, be observant and respond to patients' needs.	CR	Role play
b.	Display empathy and respect to the patient during history taking	CR	Role play
c.	Speak clearly and confidently to the patient	CR	Role play
d.	Show positive gestures to the patient	CR	Role play
e.	Presentation skill	CR	Competition

ORTHODONTICS

1.	Quote terminologies that will be used during examinations, problem list making and while carrying out the treatment	IL /CR	OSCE
2.	Recognize various terms used to describe malocclusion, so as to have a better understanding of the condition when the problems regarding it are being discussed	IL /CR	OSCE
3.	Recognize the importance of various classifications	IL	CQ
4.	Recognize the short comings of various classifications	IL	CQ
5.	Relate medical problems with resulting malocclusions	IL /CP	OSCE/ SSQ
6.	Indicate what protocols will change in Orthodontic treatment while dealing with medically compromised patients	IL / CBL	OSCE
7.	Relate the syndromes to different malocclusions	CP	SAQ / OSCE
8.	Determine the etiological factors for a certain malocclusion	IL	SAQ / OSCE
9.	Recognize the impact of hereditary influences on a malocclusion	IL	BCQ

10.	comprehend how various environmental factors lead to a certain malocclusions	IL	BCQ /OSCE
11.	Recall the normal anatomy and physiology of dentition and surrounding structures	IL	CQ
12.	Write the theories on how tooth eruption will occur	Assignment	SAQ
13.	Summarize the basic biological process that occurs in bone due to the forces applied to teeth for Orthodontic tooth movement	IL	SAQ
14.	Define what is optimum force, and understand its importance	IL	OSCE
15.	Quote and write the optimum amount of forces that can be applied for tooth movement	IL	OSCE
16.	Write and quote the side effects that can occur if the Orthodontic force is less or exceeds the normal limits	IL	SAQ/ BCQ
17.	Quote the importance of different force durations on tooth movements during orthodontic treatment	IL	SAQ/ BCQ
18.	Define what is anchorage	IL	OSCE
19.	Quote and identify the importance of anchorage during tooth movement	IL /CBL	OSCE/BCQ
20.	Discuss and predict how anchorage can be increased in a case	IL/ CBL	OSCE
21.	Discuss and write the effects on treatment if anchorage is not maintained	IL	CQ
22.	Enlist different materials used for orthodontic treatment and discuss their properties	IL	SAQ
23.	Discuss the properties of each material used in Orthodontic treatment	IL	SAQ/BCQ
24.	Identify which wire should be used at which stage of treatment	IL	OSCE
25.	Quote and discuss the properties of an ideal wire	IL	SAQ /BCQ
26.	Differentiate between banding and bonding	IL	OSCE
27.	Quote and enlist the indications of banding	IL	OSCE/BCQ
28.	Identify the conditions when banding is preferred over bonding	IL	BCQ/ OSCE
29.	Quote the importance of correct bonding in a orthodontic case	IL	OSCE
30.	Quote the three order bends given in a wire	IL	OSCE
31.	Discuss the concept of straight wire appliance	IL	CQ
32.	Quote the importance of straight wire appliance	IL	CQ

33.	Create a list of problems for a patient that need correction	IL, CR	BCQ, OSCE, end rotation
34.	Summarize all the problems that a patient has come with	IL, CR	BCQ, OSCE, end rotation
OPERATIVE/ OMFS / ORTHODONTICS			
35.	Explain the principles of Imaging	IL	BCQ/CQ
36.	Enumerate the components of X-ray units and X-ray tube	IL/CR	BCQ/CQ
37.	Describe the factors influencing the size, shape and quality of the X-ray beam	IL/CR	BCQ/CQ
38.	Differentiate between normal anatomical structures and artifacts	IL/CR	OSCE/CQ
39.	Identify the basic components of Digital Imaging system	IL/CR	BCQ/CQ
40.	Describe the Imaging principles and special terminologies associated with cone beam CT Imaging	IL/CR	BCQ
41.	Enumerate various radiographs used in Dentistry	IL/CR	OSCE
42.	Define & distinguish terminologies used in Dental radiology	IL/CR	BCQ
43.	Use the terms radiopaque and radiolucent correctly	IL/CR	OSCE
44.	Enlist the advantages and disadvantages of cone beam CT & identify different axis	IL/CR	BCQ
45.	Draw a flow chart showing sequence of steps involved in producing a radiograph from exposure to X-rays to mounting	CR	BCQ
46.	Identify various intra-oral and extra-oral radiographic techniques used in OMFS along with its use	IL/CR	BCQ/OSCE
47.	Enlist the indications of different radiographs	IL	BCQ/OSCE
48.	Identify the dental and skeletal structures in different radiographs	IL	OSCE
49.	Identify the side effects of this diagnostic modality	IL	BCQ/CQ
50.	Apply Principle of ALARA	IL/CR	BCQ
51.	Demonstrate and apply positioning technique of periapical radiograph	CR	BCQ
52.	Compare paralleling and bisecting angle technique	IL/CR	BCQ
53.	Discuss indications of occlusal radiograph	IL	BCQ
54.	Tell the technique of occlusal radiograph	IL	BCQ
55.	Demonstrate bitewing radiograph technique	CR	OSCE

56.	Demonstrate and apply positioning technique of periapical radiograph	CR	BCQ
57.	Apply SLOB rule	CR	BCQ
PROFESSIONALISM AND ETHICS			
58.	Come to the lectures and OPD on time	CR	CR
59.	Complete all tasks on or before deadlines	CR	Observation during CR
60.	Perform the sterilization of instruments independently and understand its importance	CR	OSCE
61.	Understand the indications of different radiographs, and avoid prescribing them unnecessarily	CR	OSCE
	COMMUNICATION SKILLS		
62.	Communicate with each other and faculty confidently and respectfully	CR	Observation during CR
63.	Demonstrates skills in presentation	CR	Class presentation
OMFS			
1.	Differentiate between abscess and cellulitis	IL/CR	MCQ/SAQ
2.	Compare both specific and non-specific infections involving facial spaces	IL	MCQ/CQ
3.	Enumerate the principles of management of Odontogenic Infection	IL	SAQ
4.	Identify complex odontogenic infections	IL/CBL	MCQ/SAQ
5.	Devise the management plan for patient with Ludwig's angina.	IL/CBL	SAQ
6.	Identify potential spaces for spread of infection	IL	MCQ/CQ
7.	Justify the importance of antibiotic in managing Oral infections	IL	MCQ
8.	Discuss the treatment options with the patient like incision and drainage augmented with antibiotic therapy and follow ups	IL/SGD	MCQ
9.	Interpret clinical, imaging and laboratory findings associated with Oral & Maxillofacial pathology including mucosal and malignant lesions	IL	MCQ/CQ
10.	Apply diagnostic and therapeutic options for the management of Oral infections and pathology	IL/SGD	OSCE

11.	Identify Maxillary antrum diseases on the basis of clinical and radiographic findings.	IL	MCQ
12.	Investigate maxillary antrum diseases via periapical and panoramic radiographs	IL	MCQ
13.	List management and complications of maxillary sinus that may occur during dentoalveolar surgical procedures like Oroantral Communication and Oroantral Fistula	IL/CR	MCQ
14.	Classify disorders of Salivary gland	IL	MCQ
15.	Enumerate diagnostic tools used for detection of Salivary gland diseases	IL	MCQ/SAQ
16.	Diagnose various diseases of Salivary Glands on the basis of their clinical & radiological features.	IL/CBL	MCQ/CQ
17.	Devise treatment plan for diseases of salivary glands.	IL	MCQ/SAQ
18.	Classify cysts and tumors of the head and neck region.	IL	SAQ
19.	Develop differential diagnosis for Oral & Maxillofacial pathology	IL	SAQ/OSCE
20.	List clinical, radiographic and laboratory investigations of various oral diseases along with oral manifestations of systemic diseases.	IL	SAQ
21.	List the histological and radiographic features of different cysts and tumors	IL	MCQ
22.	Formulate differential diagnosis and devise management plan for removal of cysts and tumors	IL/CBL	MCQ/SAQ
23.	Define Radiograph	IL/CR	MCQ
24.	Enumerate various radiographs used in Dentistry	IL/CR	OSCE
25.	Define the terminologies used in Dental radiology	IL/CR	MCQ
26.	Use the terms radiopaque and radiolucent correctly	IL/CR	OSCE
OPERATIVE/ OMFS / ORTHODONTICS			
27.	Enumerate the components of X-ray units and X-ray tube	CR	MCQ/CQ
28.	Describe the factors influencing the size, shape and quality of the X-ray beam	CR	MCQ/CQ
29.	Differentiate between normal anatomical structures and artifacts	CR	OSCE/CQ
30.	Identify the basic components of Digital Imaging system	CR	MCQ/CQ
31.	Describe the Imaging principles and special terminologies associated with cone beam CT Imaging	IL/CR	MCQ
32.	Enumerate various radiographs used in Dentistry	IL/CR	OSCE
33.	Distinguish terminologies used in Dental radiology	IL/CR	MCQ
34.	Use the terms radiopaque and radiolucent correctly	CR	OSCE

35.	List the advantages and disadvantages of cone beam CT	IL/CR	MCQ
36.	Identify different axis of cone beam CT	IL	MCQ/OSCE
37.	Draw a flow chart showing sequence of steps involved in producing a radiograph from exposure to X-rays to mounting	CR	MCQ
38.	List the indications of different radiographs	IL	MCQ/OSCE
39.	Identify the dental and skeletal structures in different radiographs	CR	OSCE
40.	Identify the side effects of this diagnostic modality	IL	MCQ/CQ
41.	Apply Principle of ALARA	IL/CR	MCQ
42.	Demonstrate and apply positioning technique of periapical radiograph	CR	MCQ
43.	Compare paralleling and bisecting angle technique	IL/CR	MCQ
44.	Discuss indications of occlusal radiograph	IL	MCQ
45.	Perform technique of occlusal radiograph	IL	MCQ
46.	Demonstrate bitewing radiograph technique	CR	OSCE
47.	Apply Principle of ALARA	IL/CR	MCQ
48.	Demonstrate and apply positioning technique of periapical radiograph	CR	MCQ
49.	Compare paralleling and bisecting angle technique	IL/CR	MCQ
50.	Discuss indications of occlusal radiograph	IL	MCQ
51.	Perform technique of occlusal radiograph	IL	MCQ
52.	Demonstrate bitewing radiograph technique	CR	OSCE
53.	Apply SLOB rule	IL	MCQ
54.	List advantages of OPG	IL	MCQ
OMFS			
55.	Enumerate the potentially malignant disorders of the oral cavity along with its diagnosis and management	IL/CR	MCQ/OSCE
56.	Describe diagnostic and therapeutic treatment options for Oral & Maxillofacial pathology.	IL/CR	MCQ
57.	Manage patients in Dental OPDs undergoing radiation.	IL	MCQ
58.	Interpret the biopsy report and manage the patient accordingly	IL	SAQ
59.	Diagnose cyst and tumors of the Oral medicine on the basis of clinical features and devise management plan	IL	SAQ
60.	Describe the technique and significance of Basic Life support and Advanced trauma life support in Head and Neck Trauma	IL	SAQ

61.	Record history of the patient with trauma and examine clinically by carrying out investigations	IL/CR	SAQ/CP
62.	List the basic principles of diagnosis and management of Dentoalveolar injuries.	IL	MCQ/SAQ
63.	Interpret the types of facial fractures following first line of treatment keeping in consideration the complications that might occur	IL	MCQ/SAQ
64.	Describe maxillofacial injuries in children and elderly	IL	MCQ
65.	Devise management plan of Mandibular fractures, Zygomatic complex fractures, Orbital trauma, midfacial injuries, Nasal, Naso-orbitoethmoidal and frontal sinus injuries	IL	SAQ
Professionalism and ethics			
66.	Ask relevant questions to identify cause of dental problem	CR	Role play
67.	Explain preventive treatments for dental caries to the patient	CR	SAQs
68.	Discuss the risk factors for caries with patient	CR	OSCE/SAQs
69.	Use NICE guidelines for patient recall interval	CR	SAQs
70.	Give post-treatment instructions to the patient	CR	Role play
71.	Describe basic principles of ethics with reference to social, cultural and religious perspective.	SGD	MCQs
72.	Discuss the role of doctor in community & Duties of a doctor.	SGD	MCQs
73.	Demonstrate competency in behaving in ethical manner with patients, coworkers and the public to gain trust.	Role Play	OSCE
74.	Analyze ethical issues/dilemmas in healthcare practice.	CBL	OSCE
75.	Demonstrate competencies in resolving ethical issues faced during common clinical scenarios.	Role Play	OSCE
76.	Demonstrate competencies in avoiding potential ethical conflicts with pharmaceutical and other health industry providers.	Role Play	OSCE
77.	Differentiate between justice and equity.	SGD	MCQ
78.	Apply professional code of ethics guidance given in PMDC & HEC in given clinical scenarios.	Role Play	OSCE
79.	Interpret the biopsy report and manage the patient accordingly	CR/IL	MCQS/SAQS
80.	Manage patients in OPD undergoing radiotherapy	CR/IL	MCQS/SAQS
Patient safety			
81.	Apply method of isolation in restorative dentistry	CR	OSCE

82.	Prescribe the correct medication to the patient	CR	OSCE
83.	Perform BLS on a patient undergone maxillofacial trauma when required	CR/IL	MCQS
84.	Examine and interpret types of facial fractures following keeping in consideration the complications that might occur	CR/IL	MCQS/SAQS/OSCE
Communication skill			
85.	Able to communicate with patients, listen, be observant and respond to patients' needs.	CR	Role play
86.	Display empathy and respect to the patient during history taking	CR	Role play
87.	Speak clearly and confidently to the patient	CR	Role play
88.	Show positive gestures to the patient	CR	Role play
89.	Presentation skill	CR	Competition
90.	Record history of patients of trauma and examine clinically by carrying out investigations	CR/IL/CBL	MCQS/SAQS
91.	Describe maxillofacial injuries to children and elderly	CR/IL	SAQS
92.	Discuss findings of radiograph with patients in comprehensive manner	IL/SGD	OSCE
	PROSTHODONTICS		
	Treatment Planning		
1.	Record a comprehensive history of a partially dentate prosthodontics patient.	CR	OSCE
2.	Perform extra oral and intraoral examination on a partially dentate patient.	CR	OSCE
3.	Enumerate examination protocol specific for abutment selection.	IL	SAQ
4.	Prescribe basic investigations like periapical and OPG radiographs pertaining to partial dentulism.	CR	OSCE
5.	Make diagnostic impressions with alginate impression material.	CR	OSCE
6.	Identify the need of impression tray modification.	CR	OSCE
7.	Identify problems in alginate impressions with reasons.	CR	OSCE
8.	Manage a patient with an exaggerated gag reflex.	CR	OSCE
9.	Rationalize the need of diagnostic maxillomandibular relation in different partially dentate states.	CR/CBL	MCQS/ VIVA
10.	Analyze diagnostic casts.	CR	OSCE
11.	Correlate the radiographic findings with clinical findings.	CR	SC/ VIVA

12.	Interpret the diagnostic data garnered through history, examination and investigations.	CR/CBL	SC/ VIVA
13.	Identify favorable findings for an abutment of fixed partial denture.	IL/CBL	SAQ/SC
14.	Formulate a differential and a definitive diagnosis.	CR/CBL	MCQS/SAQ/OSCE
15.	Recognize the need of referral to appropriate specialist.	CR	OSCE
16.	Communicate verbally and through a referral note with other specialist.	CR	OSCE
17.	Identify general and local factors regarding prognosis of fixed/removable partial dentures.	CBL	SAQ/MCQS/OSCE
18.	Counsel the patient regarding consequences of tooth removal without replacement.	CR	OSCE
19.	Identify patient needs.	CR	OSCE
20.	Formulate treatment options in relation to patient needs.	CR/CBL	OSCE
21.	Devise a treatment plan keeping in view the diagnostic data, financial and social background, time frame, patient's attitude, behavior and motivation.	CBL	OSCE
22.	Communicate the diagnosis and treatment options to the patient in an appreciable manner.	CR	OSCE
23.	Write a patient record note.	CR	OSCE
24.	Correlate the factors involved in designing fixed partial denture.	IL/CBL	MCQs/SC
25.	Employ Ante's law in designing fixed partial denture	IL/CBL	MCQs/SC
26.	Apply the role of muscles of mastication, movements of the mandible and occlusion in designing fixed partial dentures.	IL/CBL	MCQs/SC
27.	Choose appropriate treatment modality according to number of teeth missing, uses, clinical requirements and material with justification.	IL/CBL	SAQ/MCQS/SC
28.	Justify the prescription of removable partial denture	IL/CBL	SAQ/MCQS/SC
	Mouth Preparation		
29.	Set out priority during treatment.	IL/CBL	MCQS
30.	Execute treatment sequence with regard to periodontal status of the patient.	IL/CBL	MCQS
31.	Outline sequence protocol of mouth preparation procedures.	IL/CBL	SAQ/MCQS
32.	Indicate the use of surgical procedures before instituting removable partial dentures.	IL/CBL	MCQS

33.	Devise a management plan for a patient presenting with abused and irritated tissue.	IL/CBL	MCQS
34.	Prescribe basic treatment for periodontal problems.	IL/CBL	SC
35.	Devise treatment strategy for a patient with old dentures till the time of definitive treatment	IL/CBL	SC
	Partially Dentate Condition		
36.	Differentiate between support, stability and retention, abutments and retainers, undercut and angle of cervical convergence, precision attachment and retainer , anatomic impression and functional impression	IL	MCQS
	Major Connectors		
37.	Differentiate between major connector and minor connector.	IL	SAQ/MCQS
38.	Enlist the basic requirements of major connectors.	IL/CBL	SAQ/MCQS
39.	Discuss the functions of major connectors	IL/CBL	SAQ
40.	Explain the basic types of mandibular and maxillary major connectors.	IL/CBL	SAQ
41.	Outline the guidelines related to location of connectors in the oral cavity.	IL/CBL	SAQ/MCQS
42.	Correlate the uses of different major connectors in various clinical scenarios.	IL/CBL	SAQ/MCQS
43.	Describe the design characteristics of major connectors.	IL/CBL	SAQ/MCQS
44.	Select appropriate major connector for the given case	IL	SAQ/MCQS
45.	Design major connectors.	CR	OSCE
46.	Appraise the role of major connectors in bracing a cast partial denture	IL	MCQS
	Minor Connectors		
47.	Define minor connector.	IL	MCQS
48.	Enumerate the functions of minor connectors.	IL	MCQS
49.	Delineate the principles of design of minor connectors.	IL	MCQS
50.	Classify minor connectors	IL	SAQ/MCQS

51.	Appraise the role of proximal plate minor connector in minimizing forces on abutment	IL/CBL	MCQS
52.	Enumerate the considerations for designing minor connectors	IL/CBL	MCQS
53.	Appraise the role of minor connectors in bracing a cast partial denture	IL	MCQS
	Rests		
54.	Distinguish between rest and rest seat.	IL	SAQ/MCQS
55.	Delineate the functions of rests.	IL	SAQ/MCQS
56.	Differentiate between the different types of rests and rest seats in relation to their form and location.	IL	SAQ/MCQS
57.	Prescribe variations of rests in regard to function.	IL/CBL	SAQ/MCQS
58.	Select a rest design according to the given case	IL/CBL	SAQ/MCQS
59.	Outline the guidelines for support of rests.	IL	SAQ/ MCQS
	Direct Retainers		
60.	Define direct retainers.	IL	SAQ/MCQS
61.	Classify types of direct retainers.	IL	SAQ/MCQS
62.	Select a clasp design according to tooth and tissue factors with justification	IL/CBL	SAQ/MCQS
63.	Enlist parts of a clasp assembly.	IL	SAQ
64.	Distinguish between parts of clasp assembly in regard to retention, support, stability and reciprocation.	IL	SAQ/MCQS
65.	Relate height of contour, supra bulge and infrabulge areas for retentive clasps.	IL	MCQS
66.	Interpret the structural and material characteristics of clasps in regard to retentive potential.	IL	SAQ/MCQS
67.	Associate retentive factors of clasps with tooth factors	IL	SAQ/MCQS
68.	Outline the basic principles governing clasp design.	IL	SAQ/MCQS

69.	Select a clasp assembly design according to different clinical scenarios.	IL/CBL	SAQ/ MCQS
70.	Justify the use of flexible clasp assembly system in free end saddle cases	IL/CBL	MCQS
71.	Justify the use of reciprocation principle in clasp assembly	IL	MCQS
72.	Differentiate between bracing and reciprocation	IL	MCQS
73.	Indicate the use of internal attachments in partially dentate arches.	IL	MCQS
	Abutment Preparation		
74.	Classify abutment teeth for removable partial dentures.	IL	MCQS
75.	Outline sequence of abutment preparations on sound enamel or existing restorations.	IL/CBL	SAQ/MCQS
76.	Discuss variations for abutment tooth preparation procedures in regard to conservative restorations, crowns, veneer crowns and ledge formation.	IL/CBL	MCQS
77.	Prepare guide planes on a plastic tooth.	CR	OSCE
78.	Perform conventional rest seat preparation on a plastic tooth (premolar and a molar)	CR	OSCE
79.	Relate stresses on isolated abutments with partial denture design.	IL	MCQS
	Impression Making		
80.	Select an impression material in different partially dentate conditions.	IL/CBL	SAQ/MCQS
81.	Pour a cast.	CR	OSCE
82.	Identify inaccurate or weak cast.	CR	OSCE
83.	Rationalize the need for making individual trays.	IL/CBL	SAQ/ MCQS
84.	Construct individual trays.	CR	OSCE
85.	Justify the use of special impression techniques for distal extension base partial dentures.	IL/CBL	SAQ/MCQS
86.	Interpret the factors influencing support of a distal extension base.	IL/CBL	SAQ/MCQS
87.	Distinguish between anatomic and functional form of residual ridge.	IL/CBL	SAQ/MCQS
88.	Make an impression using composition and alginate for distal extension bases.	CR	OSCE
89.	Delineate methods for obtaining functional support for distal extension base	IL/CBL	SAQ/MCQS

	Laboratory Procedures		
90.	Outline clinical and laboratory steps of fabrication for cast partial dentures.	IL	MCQS
91.	Explain the duplication of cast, waxing of removable partial denture, spruing, investing, burnout, casting and finishing procedures.	IL	MCQS
92.	Rationalize duplication of casts for fabrication of dentures.	IL	MCQS
93.	Identify different stages of laboratory procedures	IL	OSCE
94.	Sort laboratory procedures in the proper sequence	IL	OSCE
	Maxillomandibular relations and Occlusal relationships		
95.	Select a method for establishing occlusal relationships according to different partially dentate conditions.	IL	MCQS
96.	Record occlusal relationships in partially dentate individuals.	CR	OSCE
97.	Define overjet, overbite, buccal overlap, centric relation, centric occlusion, maximum intercuspation, curve of spee and curve of monsoon	IL	MCQS
98.	Enumerate desirable occlusal contact relationships for removable partial dentures.	IL	MCQS
	Insertion and Relining		
99.	Perform the process of acrylic processing, finishing and polishing the dentures.	CR	OSCE
100.	Explain the methods for adjusting the bearing surfaces of denture bases.	IL	MCQS
101.	Adjust acrylic removable partial dentures in patient's mouth.	CR	OSCE
102.	Identify common pressure areas encountered.	IL/CR	MCQS
103.	Outline sequence protocol for fitting of framework in the oral cavity.	IL	MCQS
104.	Enumerate methods for adjusting occlusion.	IL	MCQS
105.	Justify the need of relining removable partial dentures.	IL	MCQS
106.	Enumerate disinfection protocols for impressions and removable prosthesis.	IL/CR	MCQS
	Biomechanics		
107.	Enumerate simple mechanics of lever, pulley, wedge, inclined plane, screw and wheel in removable partial dentures.	IL	MCQS
108.	Correlate concepts of fulcrum, effort and resistance in lever principle.	IL	MCQS
109.	Relate the movement of the removable partial denture to lever principle.	IL	MCQS
110.	Isolate the components of removable partial dentures that provide resistance against different prosthesis movements	IL	MCQS
	Indirect Retainers		

111.	Define indirect retainers	IL	SAQ/MCQS
112.	Appreciate the role of indirect retainers in control of the prosthesis movement	IL	SAQ/MCQS
113.	Comprehend the factors influencing effectiveness of indirect retainers	IL	SAQ/MCQS
114.	Outline the functions of indirect retainers	IL	SAQ/MCQS
115.	Enumerate the forms of indirect retainers	IL	SAQ/MCQS
	Tooth Tissue supported partial dentures		
116.	Anticipate changes in denture base design for tooth tissue supported prosthesis.	IL	SAQ/ MCQS
117.	Appraise the use of a functionally stable prosthesis.	IL	SAQ/ MCQS
118.	Infer the effect of forces acting on the dentures.	IL	SAQ/ MCQS
119.	Differentiate between tooth supported and tooth tissue supported dentures	IL	SAQ/ MCQS
120.	Outline steps in devising partial denture design	IL	SAQ
121.	Evaluate potential support of abutment teeth and residual ridge	IL	SAQ
122.	Relate the design of proximal plate minor connector to support mechanism.	IL/CBL	SAQ/ MCQS
123.	Relate the use of a flexible clasp assembly system in free end saddle cases	IL/CBL	SAQ/ MCQS
124.	Design components for a removable partial denture.	IL/CBL	SAQ/ MCQS
125.	Enumerate techniques for enhancing support in distal extension bases.	IL/CBL	SAQ
126.	Associate the use of guiding planes to path of insertion and removal.	IL	MCQS
	Denture Bases		
127.	Define denture bases	SS	SAQ
128.	Enumerate the ideal requirements of denture bases.	SS	SAQ

129.	Relate denture base requirements to support mechanism of removable partial denture.	CBL	SAQ/ MCQS
130.	Differentiate between metal and acrylic resin denture bases.	CBL	SAQ/ MCQS
	Surveying		
131.	Define surveyor and surveying.	SGD	MCQS
132.	Describe a dental surveyor	SGD	MCQS/ OSCE
133.	Identify parts of a surveyor	SGD	OSCE
134.	Justify the process of surveying	SGD	MCQS/ SAQ
135.	Differentiate between diagnostic and definitive surveying.	SGD	MCQS/ SAQ
136.	Recognize the factors determining the path of placement.	SGD	MCQS
137.	Outline sequence protocol of surveying.	SGD	MCQS/SAQ
138.	Perform surveying on a partially dentate cast in all planes.	CR	OSCE
139.	Interpret changes in factors determining the path of placement in different planes of surveying.	CR	OSCE
140.	Sketch required mouth preparations and proposed design of removable partial denture	CR	OSCE
141.	Measure retention on the cast.	CR	OSCE
142.	Record relation of the cast to surveyor.	CR	OSCE
	Block out and relief		
143.	Defend the need for blocking out and relieving the master cast.	IL	MCQS
144.	Select materials for blocking and relieving the master cast.	IL	MCQS
145.	Differentiate between different block out techniques.	IL	MCQS
	Interim Removable partial dentures		
146.	List the uses of interim removable partial dentures.	SGD	MCQS
147.	Justify the prescription of interim removable partial dentures.	SGD	MCQS
148.	Design interim removable partial dentures.	CR	OSCE

149.	Sort clinical and laboratory procedures for interim removable partial dentures in sequence.	CR	OSCE
150.	Recognize the need of omitting or joining one or more fabrication steps of removable partial denture.	CR	OSCE
151.	Fabricate removable partial dentures for partially dentate patients.	CR	OSCE
	Occlusion and TMDs		
152.	Appraise the role of parafunctional movements on the stomatognathic system.	IL	MCQS
153.	State objectives of occlusal treatment.	IL	MCQS
154.	Justify the use of occlusal device therapy.	IL	MCQS
155.	Identify factors leading to temporomandibular disorders in edentulous populations.	IL	MCQS
156.	Outline management of temporomandibular disorders	IL	MCQS
	MAXILLOFACIAL PROSTHODONTICS TOS		
157.	Discuss the role and need of Maxillofacial Prosthesis in removable prosthodontics	IL	MCQS
158.	Define obturator and enlist its uses	IL	MCQS
159.	Enlist the types of maxillary obturators	IL	MCQS
160.	Identify types of maxillofacial prsothesis	IL	osce
161.	Classify the types of maxillary obturators according to Aramany	IL	MCQS
162.	Classify the types of mandibular prosthesis according to Cantor and Curtis	IL	MCQS
163.	Identify continuity and discontinuity mandibular defects	IL	OSCE
164.	Identify soft palate prosthesis	IL	OSCE
165.	Identify the role of soft liners in maxillofacial prosthontics.	IL	MCQS
166.	Enlist materials used for resilient lining.	IL	MCQS
	Patient Safety Approach		
167.	Demonstrate competency in a establishing a therapeutic and professional relationship with patients and their families.	CBL	OSCE
168.	Demonstrate competency in using patient-centered interviewing skills in gathering biomedical and psychological information.	Role Play	OSCE
169.	Demonstrate competency in seeking and developing relevant information from other sources, including the patient's family, with patient's consent.	Role Play	OSCE

ACADEMIC SCHEDULES

Weekwise schedule of Module XI Operative Dentistry			
Week no.	**Lecturer 1**	**Lecturer 2**	**Lecturer 3**
W/1	Dental caries & its etiology **LO (1- 6)**	Restorative instruments **LO (16-17a,b)**	Diagnosis of dental caries **LO (7- 9)**
W/2	Treatment plan sequence **LO (10-11)**	Sterilization & infection control **LO (17c)**	Preventive & noninvasive treatments for dental caries **LO (12-13)**
W/3	Etiology & treatment of root caries **LO (14-15)**	Amalgam-1 **LO (18-20)**	Cavity liner/ bases & sealers **LO (33-34)**
W/4	**Test** **LO (1-15)**	Amalgam-2 **LO (21-22)**	Adhesion to enamel & dentine-1 **LO (37-40)**
W/5	Adhesion to enamel & dentine-2 **LO (43)**	Steps of cavity preparation for amalgam restorations **LO (23-27)**	Composite as a restorative material **LO (44)**
W/6	Clinical steps for composite Class III & Class IV **LO (45)**	**Test** **LO (16-27)**	Posterior composite -1 **LO (46-50)**
W/7	Posterior composite -2 **LO (51-54)**	Complex restorations for amalgam **LO (28-32)**	Finishing & polishing of composite **LO (55-59)**
W/8	Non carious cervical lesions **LO (60-61)**	Finishing & polishing of amalgam **LO (35-36)**	**Test** **LO (33-45)**
W/9	Bleaching-1 **LO (62-65)**	**Test** **LO (28--36)**	Bleaching-2 **LO (66-68)**
W/10	Veneers **LO (69-72)**	**Revision**	Inlay and onlay **LO (73-75)**
W/11	Core Material & dental posts **LO (76-80)**	Methods of fluid control **LO (81-82)**	CAD/CAM in dentistry **LO (83)**

W/12	**Theory Examination** **OSCE & Viva Examination**

Weekly schedule of Module XI **Orthodontics**		
Week no.	**Lecturer 1**	**Lecturer 2**
Week – 1	Etiology of Malocclusion I (8-10)	Etiology of Malocclusion II (8-10)
Week – 2	Etiology of Malocclusion III (8-10)	Classification of malocclusions (1-4)
Week – 3	Orthodontic diagnosis I (33-34)	Orthodontic diagnosis II (33-34)
Week – 4	Orthodontic diagnosis III (33-34)	PRESENTATIONS medical problems (5-7)
Week – 5	TEST	Biologic bases of tooth movement I (11-17)
Week – 6	Biologic bases of tooth movement II (11-17)	PRESENTATIONS Mechanical Principles
Week – 7	Mechanical Principles in Orthodontics I (22-25)	Mechanical Principles in Orthodontics II (22-25)
Week – 8	Mechanical Principles in Orthodontics III (22-25)	Anchorage in orthodontics (18-21)
Week – 9	Assessment	Banding procedures (26-29)
Week –10	Bonding procedures (26-29)	1st second and third order movements (30-32)
Week -11	Test	Radiographs for diagnosis (35-54)
Week -12	**Theory Examination** **OSCE & Viva Examination**	

Weekly schedule of Module XI **OMFS**

Week	Lecture 1	Lecture 2
Week – 1	Development of Clinical Anatomy and Physiology of TMJ LO: 2	Diseases of TMJ LO: 3, 4, 5
Week – 2	TMJ Ankylosis	Management of TMJ Diseases LO:1, 5, 6
Week – 3	Myofascial Pain Dysfunction Syndrome (MPDS) LO: 5, 6	Pathophysiology of Internal Disc Derangements of TMJ LO: 5, 6
Week – 4	Case presentations	Case presentations
Week – 5	Management of odontogenic infections LO: 3	Management of complex odontogenic infections LO:4, 5,6,7,8,
Week – 6	Class test	Soft tissue Cysts and Benign Neoplasm LO: 9,10,
Week – 7	Odontogenic & Non-odontogenic Cysts LO: 19-23	Fibro-osseous, Benign and Malignant Neoplasms LO: 28
Week – 8	Diseases of Maxillary sinus + Oro antral fistula LO: 11,12,13	Introduction of Salivary Gland disorders LO: 14, 15, 16,17,
Week – 9	Diagnosis and management of Salivary Gland Disorders LO: 18	Principal of differential diagnosis and biopsy, LO: 55-58
Week – 10	Diagnosis and management of Benign and malignant lesions LO: 55-58.	Effects of Radiotherapy and Chemotherapy in Malignant Disease LO: 29-31
Week -11	Effects of Radiotherapy and Chemotherapy in Malignant Disease LO: 29-31	Suturing skills work shop
Week -12	**Theory Examination** **OSCE & Viva Examination**	

	Weekly schedule of Module XI PROSTHODONTICS

	LECTURE TOPIC	LOs	RESOURCES
	Module XI		
YG 1	Partial Dentulism (Abutment selection and Mouth Preparation)	3,29-35	Book 4* Chap 13 &14
	Case selection (Partial edentulism)	27-28	Book 4* Chap 2 & 3
Week 2	Major Connectors – Mandibular	38-46	Book 4* Chap 5
	Major connectors – Maxillary	38-46	Book 4* 5
Week 3	Minor Connectors	47-53	Book 4* Chap 5
	Rests and Rest Seats	54-59	Book 4* Chap 6
Week 4	Direct Retainers	60-73	Book 4* Chap 7
	Test		
Week 5	Abutment Preparation	74-79	Book 4* Chap 15
	Abutment preparation – Occlusal rest	78	Book 4* Chap 15 Videos
Week 6	Impression techniques	80-89	Book 4* Chap 16
	Laboratory Procedures	90-94,143-145	Book 4* Chap 19
Week 7	Maxillomandibular relations	95-97	Book 4* Chap 18
	Occlusion & Insertion protocols (Metal try-in)	98,99-106	Book 4* Chap 18 &21
Week 8	Biomechanics of removable partial dentures/ Indirect Retainers	107-115	Book 4* Chap 4
	Tooth Tissue supported RPDs	116-126	Book 4* Chap 17
Week 9	Hands- on Surveying	131-142	Book 4* Chap 11
	Test		
Week 10	Designing	120,124	Book 4* Chap 10
	Maxillofacial Prosthodontics	157-166	Book 1* Chap 19
Week 11	TMDs	152-156	Book 3* Chap 4/Handouts
	Revision		
Week 12	**Theory Examination** **OSCE & Viva Examination**		

MODULE XII

(Paedodontics, Orthodontic Treatment Planning, Orthognathic surgery, Fixed Prosthodontics and Allied Prosthetics)

At the end of the module, students should be able to:

S.No	Objectives	Teaching strategy	Assessment tool
1.	**Communication Skill**		
a.	Describe communication principles in pediatric dental practice	IL/CBL	BCQs/SAQs
b.	Demonstrate friendly body gestures and appropriate tone to build a positive relationship with a child patient	CR	Role play
c.	Counsel to the parent and the child for prevention of caries	CR	Role play
2.	Identify instruments used in pediatric dentistry and demonstrate their grip	IL/CR	BCQs/OSCE
3.	Apply behavior modification strategies' to the pediatric patient in a dental practice	CR	BCQs/SAQs/ OSCE
4.	**Patient Safety**		
a.	Know Pharmacological management of the anxious child. Enlist basic drugs and routes of administration of conscious sedation.	IL	BCQs/SAQs
b.	Enumerate indication and contraindication of conscious sedation and describe steps of I.V sedation	IL	BCQs/SAQs
c.	Demonstrate local anesthesia techniques for Paediactric dentistry	CR	OSCE
d.	Describe maximum dosage in children of commonly used local anesthetic agents	IL/CR/SGD	BCQs/SAQs/OSCE/ Viva
5.	List indication and contraindication of local anesthesia.	IL/CR	OSCE
6.	Describe the pattern of caries in pre-school children and classify caries in pediatric patients	IL	BCQs/SAQs
7.	Know how to assess caries risk factors in children	IL/CR	BCQs/ Viva
8.	Explain the relationship between diet, plaque, saliva and caries	IL/CBL	BCQs/SAQs
9.	Perform Dental caries detection and diagnosis in pre-school children in dental OPD	IL/CR	BCQs/SAQs
10.	**Commination Skill**		
a.	Recognize the importance of Diet counseling to the parent and the child for prevention of caries	IL	BCQs / Viva

b.	Discuss the prevention of dental caries	IL	BCQs/SAQs
11.	Describe the importance of Fluoride administration in caries control	IL	BCQs/SAQs
12.	Explain Mode of action of Fluoride	IL/CBL	BCQs/SAQs
13.	Know importance of Water fluoridation	IL	SAQs
14.	**Patient Safety**		
a.	Prescribe Fluoride supplement to reduce caries	IL/CR	SAQs
b.	Define various terms used in relation to fluoride overdosage/toxicity	IL/SGD	BCQs/SAQs/OSCE/ Viva
c.	Know the Management of accidental fluoride overdosage	IL/SGD	BCQs/SAQs/OSCE/ Viva
d.	Skill to write correct medicine according to the age of the child patient	CR	OSCE
15.	Apply Fluoride gel/ varnish as a preventive measure	IL	SAQs
16.	Describe the working mechanism of Casein phosphopeptide–amorphous calcium phosphate (CPP–ACP)	IL	BCQs/SAQs/ Viva
17.	Appreciate the importance of temporization in Paediactric patients with multiple caries lesions	IL/CR	BCQs/SAQs
18.	Apply operative procedure to restore the primary teeth when pulp is not involved	IL/CR	BCQs/SAQs
19.	Decide when to remove, restore, or leave the carious lesion	CR	OSCE
20.	Recognize the importance of pulp therapy in a primary dentition and management of pain at emergency visit	IL/CR	BCQs/SAQs/OSCE
21.	Express medicaments used for pulpotomy in primary dentition	IL/CR	BCQs/SAQs/ Viva
22.	Perform pulpotomy procedure in primary teeth	IL/CR	BCQs/SAQs/OSCE
23.	Discuss indication of Pulpectomy for primary teeth	CR/SGD	BCQs/SAQs/OSCE
24.	Demonstrate the procedure of pulpectomy in primary teeth	CR	BCQs/SAQs/OSCE

25.	Revise the application of fissure sealants and Preventive resin restoration in primary dentition	IL/CR	BCQs
26.	Know indications of Stainless steel crown	IL/CR	BCQs/SAQs
27.	Demonstrate procedure of stainless steel crown preparation	IL/CR	BCQs/SAQs
28.	Preform cementation of stainless steel crown	IL/CR	BCQs/SAQs
29.	Describe rational of Hall technique in primary teeth	IL/CR	BCQs/SAQs /Viva
30.	Outline the use of adhesive cast coping	IL/CR	BCQs/SAQs
31.	Explain alternatives to conventional cavity preparation	IL	BCQs
32.	Understand use of lasers in dentistry	IL	BCQs
33.	Apply operative procedure to restore the permanent teeth in mixed dentition when pulp is not involved	IL/CR	BCQs/SAQs
34.	Describe acute gingival conditions	IL	BCQs/SAQs
35.	Describe necrotizing ulcerative gingivitis	IL	BCQs/SAQs
36.	Describe drug induced gingival enlargement	IL	BCQs/SAQs
37.	Demonstrate clinical ability to screen diseases in children	IL/CR	Viva
38.	Recognize the aetiological factors of dental trauma	IL	BCQs/SAQs/ Viva
39.	Classify the nature of dento-alveolar injuries	IL	BCQs/SAQs
40.	**Professionalism & ethic**		
a.	Ask correct questions during history taking (medical & dental) in traumatic injuries	IL/CR	BCQs/SAQs/Viva
41.	Examine intra-oral, extra-oral tissue in case of dental trauma	IL/CR	BCQs/OSCE
42.	Describe radiographic and clinical features of the various injuries to the primary dentition	IL/CR	SAQs/OSCE

43.	Explain the sequelae of traumatic injuries to the primary dentition	IL	BCQs/SAQs
44.	Know the management of complications in permanent dentition occur due to traumatic injuries to the primary dentition	IL/CR	BCQs/SAQs/OSCE
45.	Describe clinical and radiographic features of the traumatic injuries to the hard dental tissue and the pulp in permanent dentition	IL/CR	BCQs/ SAQs/OSCE
46.	Apply treatment options to manage traumatic injuries to the hard dental tissue and the pulp in permanent dentition	IL/CR	BCQs/SAQs/OSCE/ Viva
47.	Differentiate between various Tooth luxations injuries	IL	BCQs/SAQs/ OSCE
48.	Explain clinical and radiographic features of luxation injuries	IL	BCQs/SAQs/ OSCE
49.	Mange Concussion, Subluxation Lateral luxation, and Extrusive luxation injuries	IL	BCQs/SAQs/OSCE
50.	Use different treatment modalities to manage Intrusive luxation injuries of various degree	IL	BCQs/SAQs/ OSCE
51.	Execute replantation procedure for Avulsion injuries	IL	BCQs/SAQs/OSCE
52.	Know types of splints use in Paediatric dentistry	IL	BCQs/SAQs/OSCE
53.	Apply different types of Splinting techniques	IL	BCQs/SAQs
54.	Differentiate between various types of resorption in teeth	IL/CR/SGD	BCQs/SAQs
55.	Write clinical and radiographic features of External inflammatory root resorption	IL/CR/SGD	BCQs/SAQs/OSCE/ Viva
56.	Know management of External inflammatory root resorption	IL	BCQs/SAQs/OSCE
57.	Describe diagnosis of cervical resorption	IL	BCQs/SAQs

58.	Recognize various types of invasive cervical resorption clinically & radiographically	IL	BCQs/SAQs/OSCE
59.	Perform management of invasive cervical resorption	IL	BCQs/SAQs/OSCE
60.	Explain the process of replacement resorption	IL	BCQs /Viva
61.	Know management of replacement root resorption	IL	BCQs
62.	Explain prevalence and clinical difference between Megadont and microdontia	IL	BCQs
63.	Examine accessory cusp abnormalities in tooth form & Execute management for accessory cusp	IL/CR	OSCE
64.	Differentiate between Invaginated and Evaginated teeth	IL/CR	BCQs/SAQs
65.	Apply management for Invaginated and Evaginated teeth	IL/CR	OSCE/ Viva
66.	Explain Taurodontism and its types	IL	BCQs/SAQs
67.	Discuss clinical features, differential diagnose and phased management of Amelogenesis Imperfecta in primary and mixed dentition	IL/CR	OSCE
68.	Know clinical features and explain systemic association of Molar-incisal hypomineralization	IL	BCQs/SAQs
69.	Perform management of Molar-incisal hypomineralization in primary and mixed dentition including pit and fissure sealants	IL/CR	BCQs/SAQs/OSCE
70.	Express clinical and radiographic findings of Dentinogenesis Imperfecta and its differential diagnosis	IL	BCQs/SAQs/OSCE
71.	Execute management for Dentinogenesis Imperfecta in primary, mixed and permanent dentition	IL/CR	BCQs/SAQs/OSCE
72.	Elicit key features of type I and type II dentinal dysplasia and its differential diagnosis	IL/CR	BCQs/SAQs/OSCE
73.	Discuss important foci of treatment of dentinal dysplasia	IL/CR	BCQs/SAQs/OSCE
	Operative and Orthodontic Integration		
74.	*State steps of orthodontic assessment and tabulate index of orthodontic needs*	*IL*	*BCQs/SAQs*
75.	*Discuss balancing /compensating extraction*	*IL*	*BCQs/SAQs*
76.	*State reasons for enforced extraction of first molar*	*IL*	*BCQs/SAQs*
77.	*Manage impacted canine and enlist treatment options of missing lateral incisors*	*IL/CR*	*BCQs/SAQs /OSCE*

78.	*Plan treatment with space maintainers*	*IL/CR*	*BCQs/SAQs /OSCE*
	Operative and Oral medicine integration		
79.	*Discuss management of orofacial soft tissue conditions*	*IL/CR*	*BCQs/SAQs*
80.	*Describe pyogenic granuloma*	*IL/CR*	*BCQs/SAQs*
81.	*Discuss oral malignant lesions in children*	*IL/CR*	*BCQs/SAQs*
82.	*Describe management of orofacial infections in pediatric patients*	*IL/CR*	*BCQs/SAQs*
83.	*Manage criteria for auto-transplantation of teeth*	*IL/CR*	*BCQs/SAQs*
84.	*Discuss dental management of patients with cardiovascular disorders*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
85.	*State management plan of patients with bleeding disorder*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
86.	*Describe leukemic patients rehabilitation plan*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
87.	*Discuss oral management options for patients with convulsive disorders*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
88.	*State pre and post-operative oral rehabilitation of patients with organ transplantation*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
89.	*Discuss oral management plan for patients with Down's syndrome*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
90.	*Describe preventive plan of patients with syndromes*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
91.	*State management options of patients with cerebral palsy*	*IL/CR/SGD*	*BCQs/SAQs /Viva*
92.	**Communication Skill**		
a.	Give post-filling instruction to the child patient	CR	Role play
b.	Presentation skill	CR	Competition

ORTHODONTICS

1)	Define preventive and interceptive treatment with regards to Orthodontics	IL	OSCE
2)	Differentiate between preventive and interceptive treatment	IL	OSCE/ BCQ/SAQ
3)	Enlist the treatment options that come under preventive and interceptive treatment	IL	OSCE/ BCQ / SAQ

4)	discuss how the habits can influence development of malocclusion	IL	OSCE/ BCQ /SAQ
5)	Recognize the importance of monitoring or controlling environmental factors for prevention of malocclusion	IL	OSCE
6)	Recall various spaces that should naturally be present in a dentition	IL / CBL	OSCE/ BCQ
7)	Discuss the importance of various spaces naturally present in a deciduous dentition	IL / CBL/ CR	OSCE/ BCQ
8)	Recognize the cases which are more liable to have crowding later in life	IL/ CR	OSCE/ BCQ
9)	Enlist the appliances which can maintain arch space to adjust the permanent dentition	IL	OSCE/SAQ/ BCQ
10)	Identify methods used to re-create spaces in the arch to adjust teeth	IL	CQ
11)	Enlist the situations when extractions become necessary	IL	BCQ/ SAQ
12)	Enlist different methods by which space can be gained in an arch	IL	BCQ/ SAQ
13)	Identify the various removable appliances and their parts	CR	OSCE
14)	Enlist the indications of removable appliances	CR	OSCE
15)	Identify active components of a removable appliance	CR	OSCE
16)	Fabricate various components of a removable appliance	CR	OSCE
17)	Fabricate removable appliances	CR	End rotation
18)	Define what is functional jaw orthopedics	IL	OSCE
19)	Discuss the importance of functional jaw orthopedics as a treatment modality	IL	OSCE/ BCQ
20)	Enlist the appliances used for functional jaw orthopedics	IL	CQ/ BCQ / SAQ
21)	Enlist different treatment options that are available till the growth spurt	IL	OSCE /SAQ
22)	Discuss the importance of a step wise approach in providing orthodontic treatment to patient	IL	CQ/ OSCE
23)	Enlist methods to manage eruption problems, space problems, and crowded arches.	IL/ CR	OSCE/ BCQ
24)	Discuss options available for treating eruption problems	IL/ CR	OSCE
25)	Identify the problems in occlusion at the end of treatment	CR	OSCE
26)	Define relapse	IL	OSCE /SAQ
27)	Quote causes of relapse	IL	OSCE/ BCQ/ SAQ

28)	Discuss importance of retention at the end of Orthodontic treatment	IL	OSCE/ BCQ/ SAQ
29)	Quote different methods that can be utilized to prevent, or minimize relapse at the end of Orthodontic treatment	IL	OSCE/ BCQ / SAQ
30)	Enlist the conditions in which the retention methods would have to be varied and find its reason	IL	OSCE/ SAQ
31)	Quote the conditions which would need longer retention time	IL	OSCE/ BCQ /SAQ
32)	learn about the condition in which fixed retention would be provided	IL	OSCE/ BCQ /SAQ
33)	Write and quote the basic retention protocol	IL	BCQ /SAQ
34)	Recognize the factors that cause clefting in a fetus	IL	BCQ/SAQ
35)	Describe the risk factors for cleft lip and palate	IL	BCQ
36)	Identify dental treatments that can be provided to patients of cleft lip and palate	IL/CBL	SAQ/OSCE
OMFS / ORTHODONTICS			
37)	Enlist various Dentofacial deformities and syndromes of Orofacial complex	IL/CBL	BCQ/CP
38)	Describe basics of orthognathic surgery and its significance in correcting Dentofacial deformities	IL	BCQ/SAQ
39)	Enlist various orthognathic procedures	IL	BCQ
40)	Formulate treatment plan for management in patients with Oro-facial Cleft	IL/CBL	BCQ/SAQ
41)	Enlist the instructions provided to the patient after delivering various orthopedic/orthodontic appliances	IL/CBL	Observation during CR
PROFESSIONALISM AND ETHICS			
42)	Communicate with each other and faculty confidently and respectfully	CR	Observation during CR
43)	Complete all tasks on or before dead lines	CR	Observation during CR
PATIENT SAFETY			
44)	Perform the sterilization of instruments independently and understand its importance	CR	OSCE
45)	Demonstrate the wearing of lead apron before the radiographs and understand its importance	CR	Observation during CR
46)	Select proper cases for serial extractions	IL	MCQ/ OSCE
COMMUNICATION SKILLS			
47)	Communicate the problem list of patient confidently and thoroughly	CR	Class presentation

48)	Demonstrates skills in presentation	CR/ class presentations	Class presentation
OMFS			
1)	Enumerate the principles of reconstruction of various jaw deformities	IL	MCQ
	Temporomandibular Joint Disorders		
2)	Explain the basic anatomy and physiology of Temporomandibular Joint and the pathologies related to it, which may be both congenital and development.	IL	MCQ
3)	Evaluate TMJ pain and dysfunction by thorough history, physical examination and radiographic assessment.	IL/CBL	MCQ/OSCE
4)	Classify Temporomandibular Joint Disorders	IL	SAQ
5)	Develop differential diagnosis for Temporomandibular joint disorders/diseases	IL/CBL	SAQ/CP
6)	Plan treatment options for TMJ diseases, non-surgical and surgical management	IL/CBL	SAQ
7)	Describe the basics of laser, gene and immunotherapy	IL	MCQ
Forensic Dentistry			
8)	Define Forensic Dentistry.	IL	MCQ/CQ
9)	Predict the importance of dentistry in forensic.	IL	CQ
10)	Outline the significance of age, gender and ethnic determination for personal identification.	IL	CQ
11)	Analyze role of forensic dentistry in Mass disaster, Bite marks, Chelioscopy and Rugoscopy.	IL	CQ
12)	Interpret the role of DNA in primary and permanent dentition.	IL	CQ
Ethics in Dentistry			
13)	Outline the significance of ethics in Dentistry.	IL	MCQ
14)	Enumerate the ethical principles that must be taken into consideration for practicing dentistry.	IL/SGD	MCQ
15)	Explain the terms, values and concepts that are often used in health care.	IL/SGD	MCQ
16)	Describe the difference between a problem and an ethical dilemma	IL/SGD	MCQ
17)	Analyze the role of autonomy in Ethics.	IL	MCQ
18)	Choose the principles or values which are present and important in clinical scenarios	IL	MCQ

19)	Determine the role of informed consent in clinical practice of Dentistry	IL/CR	MCQ
20)	Ask correct questions during history taking (medical & dental) in caries assessment & traumatic injuries	CR	Role play
21)	Explain to the parent and the child for the importance of brushing	CR	SAQs
22)	Use NICE guidelines for patient recall interval	CR	SAQs
23)	Determine the role of informed consent in clinical practice of dentistry	IL/SGD	OSCE
24)			
25)	Apply method of isolation during treatment to maintain child safety	CR	OSCE
26)	Prescribe proper medicine according to the age of the child	CR	OSCE
27)	Follow protocols for implants	CR	OSCE
28)	Counsel parents for cleft lip and palate surgery	CR/SGD	OSCE
29)	Demonstrate friendly body gestures and appropriate tone to build a positive relationship with a child patient	CR	Role play
30)	Evaluate TMJ pain and dysfunction by thorough history and physical examination	CR/IL	OSCE
31)	Explain the terms values and concept that are often used in health care	CR/IL/SGD	OSCE
32)	Describe the difference between a problem and a an ethical dilemma	IL/SGD	MCQS/OSCE

PROSTHODONTICS

	Principles of crown preparation		
1.	Appraise the role of biological width in margin placement.	IL	SAQ/MCQS
2.	Design temporary and final restorations conducive to optimal plaque control.	IL	SAQ/MCQS
3.	Apply biological, mechanical and aesthetic principles during crown preparation.	IL	SAQ/MCQS
4.	Correlate margin placement and margin design with aesthetic and biological considerations.	IL/CBL	SAQ/MCQS
5.	Achieve retention and resistance form in crown preparation.	CR	OSCE
6.	Compare different margin designs.	IL	SAQ/MCQS
7.	Relate taper of preparation with path of placement.	IL	SAQ/MCQS
8.	Associate retention of restoration with forces, geometry of preparation, surface properties, surface area, material and type of luting cement used.	IL	SAQ/MCQS
9.	Compare complete coverage and partial coverage crown in terms of retention and conservation of tooth structure.	IL	SAQ/MCQS

10.	Relate resistance form with forces, type of preparation, luting agent; and taper, diameter and height of preparation.	IL	SAQ/MCQS
11.	Appraise the influence of restoration material on aesthetics.	IL	SAQ/MCQS
12.	Assess the role of adjunctive retentive features in tooth preparation.	IL	SAQ/MCQS
13.	Devise strategies to enhance retention of crowns.	IL	SAQ/MCQS
	Tooth Preparation for crowns/retainers for FDP		
14.	Compare tooth preparation of metal, metal ceramic and all ceramic crowns.	IL	SAQ/MCQS/OSCE
15.	Rationalize the incorporation of cusp bevels in crown preparation	IL	SAQ/MCQS/OSCE
16.	Select an armamentarium for different crown preparations	CR	OPD
17.	Select appropriate bur design for different reductions of tooth surface.	CR	OPD
18.	Enlist ways of checking occlusal clearance clinically.	IL	SAQ
19.	Justify the use of guiding grooves and alignment grooves for occlusal reduction and axial reduction respectively.	IL	SAQ/MCQS
20.	Devise strategies to prevent damage to adjacent tooth during axial tooth reduction.	IL	SAQ/MCQS
21.	Select a margin design in relation to the material chosen.	IL/CBL	SAQ/MCQS
22.	Select correct margin placement in a given case.	IL/CBL	SAQ/MCQS
23.	Perform tooth preparation for an anterior and posterior metal ceramic crown on an extracted tooth.	CR	OSCE
24.	Evaluate the finished crown preparation.	CR	OSCE
25.	Compare the tooth preparation for a partial and a complete coverage crown.	IL	SAQ/MCQS/OSCE
26.	Rationalize the use of proximal grooves in a partial coverage crown.	IL	SAQ/MCQS
27.	Outline strategies for achieving parallelism between abutment preparations.	IL	SAQ
28.	Identify pin ledge preparation.	IL	SAQ/MCQS
29.	Compare pin ledge preparation with other partial coverage crown designs.	IL	SAQ/MCQS
30.	Classify veneers.	IL	SAQ/MCQS
31.	Identify porcelain laminate veneers.	IL	SAQ/MCQS/OSCE
32.	Select a patient for a porcelain laminate veneer.	IL	SAQ/MCQS
33.	Outline preparation form of a porcelain laminate veneer.	IL	SAQ

34.	Chose armamentarium for a porcelain laminate veneer preparation.	IL	SAQ/MCQS
	Crowns and Fixed dental prosthesis – Case Selection		
35.	Classify crowns.	CBL	SAQ/MCQS/OSCE
36.	Select appropriate crown material and crown type for a given case.	CBL	SAQ/MCQS
37.	Classify fixed partial dentures.	CBL	SAQ/MCQS
38.	Identify components.	CBL	SAQ/MCQS/OSCE
39.	Select appropriate type of FPD for a given patient.	CBL	SAQ/MCQS
40.	Apply material science in association to FPDs.	CBL	MCQs/VIVA
	Tissue Management and Impression Making		
41.	Consider the prerequisites for tissue management and impression making.	IL	SAQ/MCQS
42.	Select appropriate strategy for tissue displacement for margin placement and impression making.	IL	MCQS
43.	Devise strategies to control saliva during impression making.	IL	SAQ/MCQS
44.	Recognize impression defects and take measures to avoid these defects.	IL/CR	MCQS/OSCE
45.	Rationalize the use of custom tray for fixed partial denture impression.	IL	MCQS
46.	Enumerate the considerations for custom tray construction.	IL	SAQ/MCQS
47.	Select appropriate impression material for fixed partial dentures.	IL/CBL	MCQS
48.	Compare different impression techniques for fixed partial dentures.	IL	SAQ/MCQS
49.	Recognize impressions according to different techniques	CR	OSCE
50.	Recommend a disinfection protocol for different impressions materials.	IL/CR	MCQS/Viva
	Interim Fixed Prosthesis		
51.	Justify the use of interim fixed prosthesis.	IL	SAQ/MCQS
52.	Select appropriate material for interim FPD.	IL	MCQS
53.	Compare different techniques for its fabrication	IL	SAQ/MCQS
	All Ceramic Restorations		
54.	Classify all ceramic restorations.	IL	MCQS
55.	Select a patient for all ceramic restoration	IL	SAQ/MCQS
56.	Rationalize the use of porcelain labial margins.	IL	MCQS
57.	Select an all ceramic system in relation to aesthetics and function.	IL	MCQS
	Color Replication Process		

58.	Discuss Munsell and CIELAB Color Systems	IL	MCQS
59.	Describe visual and instrumental color measurement	IL	SAQ/MCQS
60.	Identify light Sources and the ideal light source for shade matching	IL	SAQ/MCQS
61.	State factors affecting color perception	IL	SAQ/MCQS
62.	List factors affecting the color of porcelain restorations	IL	SAQ/MCQS
63.	Apply general guidelines for shade selection	IL	SAQ/MCQS
	Laboratory Procedures		
64.	Classify definitive cast and dies.	IL	SAQ/MCQS
65.	Compare different types of dies for crown fabrication.	IL	SAQ/MCQS
66.	Enumerate different die systems.	IL	SAQ/MCQS
67.	Sequence the laboratory steps for fabrication of FPD.	IL	MCQS
68.	State steps of different laboratory procedures.	IL	MCQS
69.	Rationalize the use of wax cut back technique in PFM restorations.	IL	MCQS
70.	Enumerate considerations for designing metal sub structure.	IL	MCQS
71.	Select a casting alloy for different types or restorations.	IL	MCQS
72.	Outline steps for investing and casting of crown and FPD.	IL	MCQS
73.	Select appropriate investment material according to casting alloy.	IL	MCQS
74.	Enumerate the causes of casting failure.	IL	MCQS
75.	Relate factors affecting bond between metal and overlying porcelain.	IL	MCQS
76.	State steps of metal preparation	IL	MCQS
77.	Enlist steps of porcelain application on metal substructure.	IL	MCQS
78.	Enlist porcelain application techniques	IL	MCQS
79.	Differentiate between internal characterization and glazing/surface characterization.	IL	MCQS
80.	Differentiate between auto glazing and over glazing	IL	MCQS
81.	OUTLINE porcelain surface treatments.	IL	MCQS
	Crown evaluation (laboratory and clinical)		
82.	Plan protocol for finishing the cast restoration.	IL	SAQ/MCQS
83.	Enlist the zones of crown evaluation in laboratory in sequence	IL	SAQ/MCQS/VIVA
84.	Enumerate management of any problems in crowns pre cementation	IL/CBL	SAQ/MCQS

85.	Devise evaluation protocol of finished prosthesis clinically.	IL/CBL	SAQ/MCQS
86.	Evaluate all zones of crown sequentially in vivo	IL/CBL	SAQ/MCQS
87.	Diagnose underextention, over extention and legde formation in margins	IL/CBL	SAQ/MCQS/SC
88.	Devise strategy for managing improper crown margins	IL/CBL	SAQ/ MCQ S
	Cementation of crown and FDP		
89.	Classify luting cements	IL	SAQ/MCQS
90.	Compare provisional and definitive cementation	IL	SAQ/MCQS
91.	Select appropriate luting agent for a given type of prosthesis.	IL/CBL	SAQ/MCQS
92.	Manipulate zinc oxide and glass ionomer cements.	IL	SAQ/MCQS
93.	Enlist steps for the preparation of the restoration and tooth surface for cementation.	IL	SAQ/MCQS
94.	Give instructions to the patient regarding prosthesis care	IL	SAQ/MCQS
	Post cementation follow-up		
95.	Apply clinical protocols for post cementation appointments	IL	SAQ/MCQS
96.	Justify periodic recall of such patients.	IL	SAQ/MCQS
97.	Give post cementation instructions to the patient.	IL/CBL	SAQ/MCQS
	Abutments and Retainers for FDP		
98.	Classify abutments	IL	SAQ/MCQS
99.	Devise strategy for managing tilted abutments	IL/CBL	SAQ/MCQS
100.	Enumerate problems associated with cantilever and pier abutments	IL/CBL	SAQ/MCQS
101.	Appraise role of connectors in relation to variations in abutments	IL/CBL	SAQ/MCQS
102.	Enumerate retainers used in fixed partial dentures.	IL/CBL	SAQ/MCQS
103.	Choose appropriate retainers for different FDP designs.	IL/CBL	SAQ/MCQS
	Pontic Design		
104.	Classify residual ridge deformities	IL/CBL	SAQ/MCQS
105.	Measure pontic space.	CR	SAQ/MCQS
106.	State classification of pontic design	IL	SAQ/MCQS
107.	Compare various pontic designs along their pros and cons, indications and contraindications.	IL/CBL	SAQ/MCQS

108.	Select appropriate pontic design for different case scenarios.	IL/CBL	SAQ/MCQS
	Connectors		
109.	Compare types of connectors	IL/CBL	SAQ/MCQS
110.	List factors affecting connector design	IL/CBL	SAQ/MCQS
111.	Contrast soldering, brazing and welding	IL	SAQ/MCQS
	Minimal Preparation FDP		
112.	Select a case for a resin bonded bridge.	IL/CBL	SAQ/MCQS
113.	Justify the use of resin bonded bridged over a convention fixed partial denture	IL/CBL	SAQ/MCQS
114.	Recognize frame work design for a resin bonded FPD.	IL	OSCE
115.	Classify resin-bonded fixed partial denture.	IL	SAQ/MCQS
116.	Outline preparation steps of abutment teeth both in anterior and posterior teeth	IL	SAQ/MCQS
117.	Compare anterior and posterior abutment tooth framework design.	IL	SAQ/MCQS
118.	Select appropriate material for bonding of resin bonded FPD.	IL/CBL	SAQ/MCQS
S NO	**Osseointegration and case selection – Integrated with other specialties** *Detailed topic will be taught by Oral Surgery Department and then will be followed by prosthetic considerations and prosthesis types.*		
	Implantogy		
119.	Define dental implants	IL	MCQS
120.	Enlist the different types of dental implants	IL	MCQS
121.	Identify Implant components	IL	MCQS/OSCE
122.	Define osseointergration	IL	MCQS
123.	Discuss the role of osseointegration in implants and factors that determine its success	IL	MCQS
124.	Enumerate factors for failure of implants	IL	MCQS
125.	Sequence implant related surgical and restorative phases	IL	MCQS
126.	Compare one stage and two stage technique	IL	MCQS
127.	Enlist the types of prosthetic implant loading.	IL	MCQS
	Implant retained Prostheses		
128.	Classify implant retained prostheses according to Misch	IL	MCQS

129.	Compare cement retained versus screw retained prosthesis	IL	MCQS/OSCE
130.	Brief about configurations of implant supported overdentures	IL	MCQS
131.	Select a patient for implant supported overdentures	IL	MCQS
132.	identify type of attachments used in implant retained overdentures	IL	MCQS/OSCE
133.	Justify the use of implant supported overdentures	IL	OSCE/SAQ
	Overdentures		
136.	Rationalize the use of overdentures in removable prosthodontics.	IL	SAQ/MCQS
137.	Select a patient case for prescription of overdentures.	IL	SAQ/MCQS
138.	Anticipate the problems associated with overdentures.	IL	SAQ/MCQS
139.	Outline a treatment plan for patients indicated for overdentures.	IL	SAQ/MCQS
140.	Justify the selection of abutments for overdentures.	IL	SAQ/MCQS
141.	Select appropriate abutment design for different cases of overdentures.	IL	SAQ/MCQS
142.	Enlist problems associated with overdentures.	IL	SAQ/MCQS
143.	Recognize type of overdenture prosthesis	IL	SC

	Ethics and Professionalism		
144.	Demonstrate competency in behaving in ethical manner with patients, coworkers and the public to gain trust.	CBL	OSCE
145.	Analyze ethical issues/dilemmas in healthcare practice.	CBL	OSCE
146.	Demonstrate competencies in resolving ethical issues faced during common clinical scenarios.	CBL	BCQs
147.	Demonstrate competencies in avoiding potential ethical conflicts with pharmaceutical and other health industry providers.	Role Play	OSCE
148.	Apply professional code of ethics guidance given in PMDC & HEC in given clinical scenarios.	Role Play	OSCE

ACADEMIC SCHEDULES

Weekwise schedule of Module XII **Paediatric Dentistry**			
Week no.	**Lecturer 1**	**Lecturer 2**	**Lecturer 3**

W/1	Classification of Dental trauma **LO (36-37)**	Communication principles & Non-Pharmacological Behavior management **LO (1-2)**	Gingival diseases in children **LO (32-35)**
W/2	History & examination of traumatic injuries **LO (38-39)**	Pharmacological Behaviour management **LO (3a, b)**	Traumatic injuries to the primary dentition **LO (40)**
W/3	Sequelae of traumatic injuries to the primary dentition **LO (41-42)**	Local anesthesia techniques for Paediactric dentistry **LO (3c-4)**	Traumatic injuries to the hard dental **LO (43-44)**
W/4	Luxations injuries **LO (45-47)**	**Test LO (1-4)**	Intrusive luxation injuries **LO (48)**
W/5	**Test LO (36-48)**	Detection & Diagnosis of dental caries **LO (5-9)**	Avulsion injuries & splinting **LO (49-51)**
W/6	Types of resorption **LO (52-59)**	Fluoride Therapy Caries prevention **LO (10-15)**	**CBL (Dental trauma) LO (36-59)**
W/7	Abnormalities in tooth form and size **LO (60-64)**	Operative procedure For dental caries **LO (16-19)**	AI/DI/ Dentinal dysplasia **LO (65-69)**
W/8	Molar-incisal hypomineralization **LO (70-71)**	Pulpotomy in primary teeth **LO (20-23)**	**Test LO (49-69)**
W/9	Balancing / compensating extraction LO (72-76)	**Test LO (5-24)**	Orofacial infections in pediatric patients **LO (77-80)**
W/10	Management of medical disability in children-1 **LO (81-86)**	Stainless steel crown **LO (25-29)**	Management of medical disability in children-2 **LO (87-89)**
W/11	**Test LO (70-89)**	Use of lasers in dentistry **LO (30-31)**	**Presentations group -1 LO (90)**
W/12	**Theory Examination** **OSCE & Viva Examination**		

Weekly schedule of Module XII **Orthodontics**		
Week no.	**Lecturer 1**	**Lecturer 2**
Week – 1	Retention and relapse (26-33)	Appliances for retention (33)

Week – 2	Preventive and Interceptive treatment I (1-10)	Preventive and interceptive treatment II (1-10)
Week – 3	Preventive and interceptive treatment III (1-10)	FJO I (18-21)
Week – 4	FJO appliances (18-21)	Orthopedic treatment (18-21)
Week – 5	Treatment of class I malocclusion (11,12,22)	TEST
Week – 6	Treatment of class II malocclusion (11,12)	Treatment of class III malocclusion (11,12)
Week – 7	Treatment of CL/P (34-36, 40)	Perio problems and Orthodontic treatment
Week – 8	Orthognathic surgery (38-39)	TEST
Week – 9	Headgears in Orthodontics (18-21)	Revision
Week –10	Revision of previous modules	Revision of previous modules
Week -11	Revision of previous modules	Revision of previous modules
Week -12	**Theory Examination** **OSCE & Viva Examination**	

Weekly schedule of Module XII **OMFS**		
Week	**Lecture 1**	**Lecture 2**
Week – 1	Diagnosis & Pre-operative Management of Head/ Neck Injuries LO: 33, 34,	Diagnosis & Management of Dentoalveolar Injuries LO: 35, 36

Week – 2	Oral & Maxillofacial Radiology in trauma patients LO: 21, 22, 24, 25, 26,27,	Mandibular Fractures- Diagnosis & Management LO: 38
Week – 3	Diagnosis & Management of Maxillary Fractures LO: 182, 184	Zygomatic Complex & NOE Fractures LO: 38
Week – 4	Orbital Trauma and Management LO: 38	Maxillofacial Injuries in Children and Elderly – Special Considerations LO: 37
Week – 5	Use of Lasers in OMFS LO: 7	Introduction to Ethics in Dentistry LO: 13-17
Week – 6	Dental Radiology LO:24-27	Class presentations
Week – 7	Contemporary Implant Dentistry LO: 27	Contemporary Implant Dentistry LO: 27
Week – 8	Implant workshop	Introduction of Dentofacial Deformities LO: 37
Week – 9	Correction of Dentofacial Deformities LO: 38	Orthognathic Surgery & Distraction Osteogenesis LO: 39
Week – 10	Introduction to Orofacial Clefts LO: 37,38, 40	Management of Orofacial Clefts LO: 40
Week -11	Class presentation	Basics of Forensic Dentistry LO: 8-12
Week -12	**Theory Examination** **OSCE & Viva Examination**	

	PROSTHODONTICS MOD XII		
	LECTURE TOPICS	**LOs**	**RESOURCES**
Week 1	Principles of tooth Preparation – I	1-13	Book 3* Chap 7
	Principles of tooth Preparation – II	1-13	Book 3* Chap 7 & 11
Week 2	Tooth Preparation (Metal & Metal ceramic/ All Ceramic)	14-34	Book 3* Chap 8,9 10
	Tooth Preparation – Hands- on	14-34	Book 3* Chap 26
Week 3	Case Selection – Crown	35-36,54-57	Book 3* Chap 3
	Considerations for Fixed	37-40	Book 3* Chap 3 & 7
Week 4	Abutment and Retainers	98-103	Lecture
	Test		
Week 5	Pontic Design and Connectors	104-111	Book 3* Chap 20 & 27
	Resin bonded FPD	112-118	Book 3* Chap 26
Week 6	Case Selection - FPD	37-40	Book 3* Chap 3
	Tissue Management and Impression making	41-50	Book 3* Chap 14
Week 7	Interim Fixed Restorations	51-53	Book 3* Chap 15
	Color Replication Process	58-63	Book 3* Chap 23
Week 8	Laboratory Procedures	64-81	Book 3*
	Finishing and Evaluation	82-88	Book 3* Chap 28 & 29
Week 9	Luting Agents and Cementation Procedures/ Postoperative Care	89-97	Book 3* Chap 30 & 31
	Test		
Week 10	Implant introduction (indication, contraindication, impression)	119-127	Book 1* Chap 16
	Prosthetic consideration(types, AP Spread, occlusion)	128-133	Hand-outs
Week 11	Fp1,Fp2 and Fp3(fixed)	128-133	Hand-outs
	Rp4 and Rp5 (tooth vs. implant supported Overdentures)	128-133	Book 1* Chap 16 Hand-outs
Week 12	**Theory Examination** **OSCE & Viva Examination**		

LEARNING RESOURCES

Department of Operative Dentistry/ Paedodontics

Department of Orthodontics

Department of Oral and Maxillofacial Surgery

Department of Prosthodontics

DEPARTMENT OF OPERATIVE DENTISTRY

1. Joseph R Evans, John H Wilke. Atlas of Operative Dentistry: Preclinical and clinical procedures. Quintessence books Publishing Co.
2. Richard L Kahn, Pinkerton RJ, Kagihara LE. Fundamentals of Preclinical

Operative Dentistry. www.bookdepository.co.uk

3. The Art & Science of Operative Dentistry by Sturdurant.
4. Pickardards Manual of Operative Dentistry by EAM Kidd.
5. Fundamentals of Operative Dentistry by Schwartz
6. Dental Restorative Materials – Craig
7. Harty's Endodontic in clinical practice by T.R.Pittford
8. Pathways of pulp by Stephen Cohen
9. Endodontics Principals and Practice by Torabinejad
10. Wellburry fifth edition for Peadodontics

DEPARTMENT OF ORTHODONTICS

Contemporary Orthodontics, by William R. Profit (6^{th} Edition)

Essentials of facial growth by Donald H Enlow (2^{nd} Edition)

DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

1. An Introduction of Oral & Maxillofacial Surgery — David Mitchel
2. An Outline of Oral Surgery part I & Part II — Killey, Seaward & Kay
3. Killey's Fractures of Middle Third of Facial Skeleton
4. Killey's Fracture of the Mandible
5. Oral & Maxillofacial Surgery — Laskin
6. Oral & Maxillofacial Surgery — Kruger
7. Medical Problems in Dentistry — Scully & Cawson
8. Text book of Oral & Maxillofacial Surgery — S.M Balaji
9. Fundamentals of Orthognathic Surgery — Malcolm Harris
10. Oral & Maxillofacial Surgery — John Peddler

DEPARMENT OF PROSTHODONTICS

Books:

1. McKracken's Removable Partial Prosthodontics by Alan B Carr, Glen P McGivney and David T Brown. 11th Edition.
2. Stewart's Clinical Removable Prosthodontics by Rodney D Phoenix, David R Cagna, Charles F DeFreest. 4th Edition.
3. Prosthodontic Treatment for Edentulous Patients by Zarb, Hobkirk, Eckert and Jacob. 13th Edition.
4. Contemporary Fixed Prosthodontics by Rosenstiel, Land and Fujimoto. 4th Edition.
5. Essentials of Complete Denture Prosthodontics by Sheldon Winkler. 2nd Edition

Reference Books for Laboratory Procedures:

1. Dental Laboratory Procedures. Complete Dentures. Morrow, Rudd, Eissmann. Vol 01, 1980.
2. Dental Laboratory Procedures. Fixed Partial Dentures. Eissmann, Rudd, Morrow. Vol 02, 1980.

Notes and handouts (for topics not available in the above-mentioned books