



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

Ist Phase, J.P. Nagar, Bangalore-560 078.
Ph: 080-26659532, 61754501/02 Fax: 080 - 26548658

THE OXFORD DENTAL COLLEGE

Accredited with 'A' grade by NAAC

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka & Recognised by Dental Council of India, New Delhi)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754680 Fax: 080 - 61754693

E-mail: deandirectortodc@gmail.com Website: www.theoxford.edu



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Methods & Templates for the assessment of graduate attributes

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Summary:

Evaluation of the above attributes are achieved by two processes

1. Formative or internal assessment
2. Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

Evaluation of the above may be achieved by the following tested methods:

1. Written test
2. Practical's
3. Clinical examination
4. Viva voce

Post-graduate training is to train a student so as to ensure higher competence in both general and special area of interest and prepare him or her for a career in teaching, research and specialty practice. A student must achieve a high degree of clinical proficiency in the subject and develop competence in research and its methodology in the concerned field.

- Practice respective speciality efficiently and effectively, backed by scientific knowledge and skill
- Exercise empathy and a caring attitude and maintain high ethical standards
- Continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice
- Willing to share the knowledge and skills with any learner, junior or a colleague
- Develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.



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Methods & Templates for the assessment of learning outcomes and graduate attributes

MODEL CHECKLIST FOR EVALUATION OF JOURNAL REVIEW PRESENTATIONS.

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Article chosen was					
2.	Extent of understanding of scope and objectives of the paper by the candidate.					
3.	Whether cross-references have been consulted.					
4.	Whether other relevant publications consulted.					
5.	Ability to respond to questions on the paper / subject.					
6.	Audio - Visual aids used.					
7.	Ability to defend the paper.					
8.	Clarity of presentation.					
9.	Any other observation.					
	Total Score					



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MODEL CHECK LIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness & Preparation.					
2.	Clarity of presentation.					
3.	Understanding of subject.					
4.	Whether other relevant publications consulted.					
5.	Whether cross-references have been consulted.					
6.	Ability to answer the questions.					
7.	Time scheduling.					
8.	Appropriate use of audio – visual aids.					
9.	Overall performance.					
10.	Any other observation.					

Total Score



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(a) MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN Outpatient Department

(To be completed once a month by respective unit heads including posting in other department)

Name of the Trainee :

Date :

Name of the Unit Head :

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Regularity of attendance.					
2.	Punctuality.					
3.	Interaction with colleagues and supportive staff.					
4.	Maintenance of case records.					
5.	Presentation of cases.					
6.	Investigations work up.					
7.	Chair-side manners.					
8.	Rapport with patients.					
9.	Over all quality of clinical work.					
	Total Score					

(b) EVALUATION OF CLINICAL CASE PRESENTATION

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of history.					
2.	Whether all relevant points elicited.					
3.	Clarity of presentation.					
4.	Logical order.					
5.	Mentioned all positive and negative points					
6.	Accuracy of general physical examination.					
7.	Diagnosis: Whether it follows logically from history and findings.					
8.	Investigations required.					
	Complete list.					
	Relevant order.					
	Interpretation of investigations.					
9.	Ability to react to questioning Whether it follows logically from history and findings.					
10.	Ability to defend diagnosis.					
11.	Ability to justify differential diagnosis.					
12.	Others.					



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Grand Total					
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MODEL CHECKLIST FOR EVALUATION OF TEACHING SKILL

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No	Items for observation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Communication of the purpose of the talk					
2.	Evokes audience interest in the subject.					
3.	The introduction.					
4.	The sequence of ideas.					
5.	The use of practical examples and / or illustrations.					
6.	Speaking style (enjoyable, monotonous, etc. specify)					
7.	Attempts audience participation.					
8.	Summary of the main points at the end.					
9.	Asks questions.					
10.	Answers questions asked by the audience.					
11.	Rapport of speaker with his audience.					
12.	Effectiveness of the talk.					
13.	Uses audio-visual aids appropriately.					



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(a) **MODEL CHECKLIST FOR DISSERTATION PRESENTATION**

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No.	Prints to be considered.	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Interest shown in selecting topic.					
2	Appropriate review.					
3	Discussion with guide and other faculty.					
4	Quality of protocol.					
5	Preparation of proforma					
	Total Score					

(b) **CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE / CO-GUIDE**

Name of the Trainee :

Date :

Name of the Faculty / Observer :

Sl. No.	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1	Periodic consultation with guide / co-guide.					
2	Regular collection of case material					
3	Depth of analysis / discussion.					
4	Quality of final output.					
5	Others					
	Total Score					



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OVERALL ASSESSMENT SHEET

Date :

Sl. No.	Faculty Member	Name of Trainee and Mean Score									
		A	B	C	D	E	F	G	H	I	J
1											
2											
3											

Signature of Head of the Department

Signature of Principal

Note: The overall assessment sheet used along with the logbook shall form the basis for certifying satisfactory completion of course of study. in addition to the attendance required.



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Oral Medicine and Radiology

No.	Competency The student should be able to	Do main K/ S/ A/ C	Level K/ KH /SH /P	Must know/ Nice to know/ Desired to know	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Topic 1- Temporomandibular Joint Disorders								
1.1	Discuss anatomy, applied anatomy of TMJ and muscles of mastication	K	K	MK	Large group	Written	-	With dental anatomy dept
1.2	Classify TMJ disorders	K	K	MK	Large group	written	-	With dental anatomy
1.2	Discuss etiology, clinical features of TMJ ankylosis.	K	K	MK	Large group	Written	-	oral pathology
1.3	Discuss TMJ disc derangements.	K	K	MK	Large group	Written , Viva voce	-	-
1.4	Explain the pathophysiology, clinical features, diagnosis and management of MPDS	K	K	MK	Large group	Written , OSCE	-	-
1.5	Explain various investigations modality for TMJ.	K	K	MK	Large group	written	-	oral radiology
1.6	Explain indications for conventional techniques and describe the technique	K/A /C	K/S H/P	MK	Large group, DOAP	Written, DOPS	-	oral radiology
1.7	Demonstrate the techniques of conventional TMJ imaging.	K/A /C	K/S H/P	MK	Large group, DOAP	DOPS, Skill Assessment	-	oral radiology
1.8	Explain specialized techniques with indications.	K/A /C	K/S H/P	MK	Large group, DOAP	OSCE, DOPS	-	oral radiology
1.9	Perform clinical examination of TMJ and muscles of mastication	K/A /C	K/S H/P	MK	Large group, DOAP	DOPS	-	With physiotherapy dept
1.10	Select and Justify most suitable diagnostic approach and treatment	K/A /C	K	MK	PBL	Problem based	Fabrication of splints and night guard	With orthodontics and prosthodontics
	plan taking in account					Questions		
Topic 2- Cysts of Jaw								
2.1	Classify cysts of jaw. Explain the pathophysiology of	K	K	MK	Large group	Written exam	Oral pathology	-



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	cyst formation.							
2.2	Discuss the clinical and radiographic features of cyst	K	K	MK	Large group	Written exam, Viva voce	-	oral radiology
2.3	Discuss differential diagnosis of the cyst	K	K	MK	Large group, PBL	Written exam Viva voce problem-based questions	--	oral pathology
Topic3-Tumors of Jaw Benign and Malignant								
3.1	Classify tumors of jaw. Explain the pathophysiology of tumor formation.	K	K	MK	Large group	Written exam	-	oral pathology
3.2	Differentiate between benign and malignant tumors.	K	K	MK	Large group	Written exam	-	oral pathology
3.3	Discuss the clinical and radiographic features of Tumours of jaws	K	K	MK	Large group	Written exam	-	oral surgery
3.4	Discuss differential diagnosis of the Tumours	K	K	MK	Large group	Written exam	-	Oral pathology
			K	MK	Large group	Written exam	-	Oral surgery
CD 2.2	Instruct the patient and/or relatives	A/C	P	MK	Role play	DOPS OSCE	-	-
Topic32: Diagnosis and Treatment Planning								
No of Competencies: 5								
CD 3.1	Record Case history, gather relevant information related to systemic status, nutritional status, etc	K/S	P	MK	DOAP	DOPS Skill Assessment	-	Oral Medicine and Radiology
CD 3.2	Perform Clinical Examination- Intra-oral and extra-oral	K/S	P	MK	DOAP	DOPS Skill Assessment	-	Oral Medicine and Radiology
CD 3.3	Perform Diagnostic procedures: Investigations, referral to physician if required, diagnostic mounting, etc.	K/S	P	MK	DOAP	DOPS Skill Assessment	-	Oral Medicine and Radiology
CD 3.4	Demonstrate Data Interpretation and differential diagnosis	K/S	P	MK	DOAP	DOPS OSCE	-	-
CD 3.5	Select and justify most suitable treatment option	K/S/A	P	MK	PBL	DOPS OSCE, Viva voce	-	-

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DEPARTMENT OF PERIODONTOLOGY

**THE OXFORD DENTAL COLLEGE
DEPARTMENT OF PERIODONTOLOGY**

Criteria 8.1.10

Number	Course outcomes	Domain K/S/A/C	Level K/KH/ SH/P	Must know/ Nice to know/ Desirable to know	Teaching- Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Periodontology								
Topic 1: Introduction								
	Discuss & Define Periodontology, Periodonics, Periodontia, Brief historical background, Scope of Periodonics	K/A	K	MK	PBL	Written Exam Viva voce		
Topic 2: Gingiva and tooth supporting structures								
	Describe Development of periodontal tissues, micro-structural anatomy and biology of periodontal tissues in detail Gingiva. Junctional epithelium in detail, Epithelial Mesenchymal interaction, Periodontal, ligament Cementum, Alveolar bone.	K/A	KH	MK	PBL	Written Exam Viva voce		
Topic 3: Defence mechanisms in the oral cavity								
	Describe Defensive mechanisms in the oral cavity: Role of-Epithelium, Gingival fluid, Saliva and other defensive mechanisms in the oral environment.	K/A	K	MK	PBL	Written Exam Viva voce		
Topic 4: Age changes in periodontal structures & their significance in geriatric dentistry								
	Discuss age changes in teeth and periodontal structures and their association with periodontal diseases	K/S	KH	MK	PBL	Written Exam Viva voce		
Topic 5: Classification of periodontal disease								
	Discuss classification of periodontal disease. Need for classification, Scientific basis of classification. Classification of gingival and periodontal diseases as described in World Workshop1989	K/S	K	MK	PBL	Written Exam Viva voce		
Topic 6: Gingival diseases								
	Enumerate Gingival diseases. Identify Localized and generalized gingivitis, Papillary, marginal and diffuse gingivitis	K/S/A	K	MK	PBL	Written Exam Viva voce Skill Assessment		With dept of oral pathology



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<p>Discuss Etiology, pathogenesis, clinical signs, symptoms and management of</p> <p>i) Plaque associated gingivitis ii) Systemically aggravated gingivitis (sex hormones, drugs and systemic diseases) iii) ANUG iv) Desquamative gingivitis- Gingivitis associated with lichen plams, pemphigoid, pemphigus, and other vesiculobullous lesions v) Allergic gingivitis vi) Infective Gingivitis- Herpetic, bacterial and candidial vii) Pericoronitis viii) Gingival enlargement (classification and differential diagnosis)</p>							
Topic 7: Epidemology of periodontal disease							
<p>Describe Epidemiology of periodontal diseases. Definition of index, incidence, prevalence, epidemiology, end emic, epidemic, and pandemic</p> <p>- Classification of indices(Irreversible and reversible)</p> <p>- Deficiencies of earlier indices used in Periodontics</p> <p>- Detailed understanding of Silness & Loe Plaque Index, Loe & Silness Gingival Index, CPIITN & CPI</p> <p>- Prevalence of periodontal diseases in India and other countries.</p> <p>- Public health significance(All these topics are covered at length under community dentistry. Hence, the topics may be discussed briefly. However, questions may be asked from the topics for examination</p>	K/S	K	MK	PBL	Written Exam Viva voce Skill Assessment		
Topic 8: Extension of inflammation from gingiva							
<p>Discuss Extension of inflammation from gingival.</p>	K/S	KH	MK	PBL	Written Exam		



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	Mechanism of spread of inflammation from gingival area to deeper periodontal structures Factors that modify the spread					Skill Assessment		
Topic 9: Periodontal pocket								
	Classify Pocket Discuss Definition, signs and symptoms, classification, pathogenesis, histopathology, root surface changes and contents of the pocket	K/S/A	KH	MK	PBL	Written Exam Viva voce Skill Assessment		
Topic 10: Etiology of Periodontal diseases								
	Discuss Etiology. Dental Plaque (Biofilm) - Definition, New concept of biofilm - Types, composition, bacterial colonization, growth, maturation & disclosing agents - Role of dental plaque in periodontal diseases - Plaque microorganisms in detail and bacteria associated with periodontal diseases - Plaque retentive factors - Materia alba - Food debris - Calculus - Definition - Types, composition, attachment, theories of formation - Role of calculus in disease Food Impaction - Definition - Types, Etiology - Hirschfelds' classification - Signs, symptoms & sequelae of treatment Trauma from occlusion - Definition, Types - Histopathological changes - Role in periodontal disease - Measures of management in brief Habits - Their periodontal significance - Bruxism & parafunctional habits, tongue thrusting, lip biting, occupational habits IATROGENIC FACTORS	K/S	KH	MK	PBL	Written Exam Viva voce Skill Assessment		
Topic 11: Risk factors								



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11	Discuss Risk Factors for periodontal diseases	K/S/A	K	MK	PBL	Written Exam Viva voce		
Topic 12: Host response								
12	Describe Host response. Mechanism of initiation and progression of periodontal diseases - Basic concepts about cells, Mast cells, neutrophils, macrophages, lymphocytes, immunoglobulins, complement system, immune mechanisms & cytokines in brief - Stages in gingivitis-Initial, early, established & advanced - Periodontal disease activity, continuous paradigm, random burst & asynchronous multiple burst hypothesis	K/S	K	MK	PBL	Written Exam Viva voce		
Topic 13: Periodontitis								
	Discuss Periodontitis. Etiology, histopathology, clinical signs & symptoms, diagnosis and treatment of adult periodontitis - Periodontal abscess; definition, classification, pathogenesis, differential diagnosis and treatment - Furcation involvement, Glickmans' classification, prognosis and management - Rapidly progressive periodontitis - Juvenile periodontitis: Localized and generalized - Post-juvenile periodontitis - Periodontitis associated with systemic diseases - Refractory periodontitis	K/S/A	KH	MK	PBL	Written Exam Viva voce Skill Assessment		
Topic 14: Diagnosis								
	Record Diagnosis. Perform under supervision routine procedures, methods of probing, types of probes, (According to case history) Record Halitosis Discuss Etiology and treatment. Mention advanced diagnostic aids and their role in brief.	P	P	MK	DOAP	Objective Structural clinical examination Skill Assessment		
Topic 15: Prognosis								



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	Record Prognosis. Types, purpose and factors to be taken into consideration	P	P	MK		Written Exam Viva voce		
Topic 16: Treatment plan								
	Record Treatment plan	P	P	MK		Skill Assessment		
Topic 17: Rationale for periodontal therapy								
	Discuss Periodontal therapy & General principles of periodontal therapy. Phase I, II, III, IV therapy. Define periodontal regeneration, repair, new attachment and reattachment. Discuss Plaque control i. Mechanical tooth brushes, interdental cleaning aids, dentifrices ii. Chemical; classification and mechanism of action of each & pocket irrigation	K/S	KH	MK		Written Exam Objective Structural clinical examination Skill Assessment Viva voce Skill Assessment		
Topic 18: Pocket eradication								
	Perform under supervision Pocket eradication Procedures:- Scaling and root planning Discuss Indications - Aims & objectives - Healing following root planning - Hand instruments, sonic, ultrasonic & piezo-electric scalers Curettage & present concepts - Definition - Indications - Aims & objectives Procedures & healing response Flap surgery - Definition - Types of flaps, Design of flaps, papilla preservation contraindications -Amamentarium - Surgical procedure & healing response	P K/S /A K/S/S/A	P KH KH	MK	DOAP	Written Exam Objective Structural clinical examination Skill Assessment Viva voce Skill Assessment Written Exam Objective Structural clinical examination Skill Assessment Viva voce Skill Assessment		
Topic 19: Osseous surgery								
	Describe Osseous Surgery - Definition - Classification	K/S	K	MK	PBL	Written Exam Objective Structural		



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	- Surgery: resective, additive osseous grafts with classification of grafts) - Healing responses - Other regenerative procedures; root conditioning - Guided tissue regeneration					clinical examination Skill Assessment Viva voce Skill Assessment		
Topic 20: Mucogingival surgery								
	Discuss Mucogingival surgery & periodontal plastic Surgeries. Mucogingival problems: etiology, classification of gingival recession (P.D.Miller Jr. and Sullivan and Atkins) Indications & objectives Gingival extension procedures: lateral pedicle graft, frenectomy, frenotomy Crown lengthening procedures	K/S	K	MK	PBL	Written Exam Objective Structural clinical examination Skill Assessment Viva voce Skill Assessment		
Topic 21: Splints								
	Discuss Splints. Periodontal splints - Purpose & classification - Principles of splinting	K/S/A	KH	MK	PBL	Written Exam Viva voce Objective Structural clinical examination		
Topic 22: Dentinal hypersensitivity								
	Discuss Hypersensitivity Causes, Theories & management	K/S/A	KH	MK	Role Play	Written Exam Viva voce Objective Structural clinical examination		With dept of conservative dentistry and endodontics
Topic 23: Implants								
	Discuss Implants Definition, types, scope & biomaterials used. Periodontal considerations: such as implant-bone interface, implant-gingiva interface, implant failure, peri-implantitis & management	K/S	K	NK	PBL	Written Exam Viva voce Objective Structural clinical examination Skill Assessment		



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Topic 24: Supportive periodontal therapy								
	Discuss Maintenance phase Importance - Procedures - Maintenance of implants	K/S	KH	MK	PBL	Written Exam Viva voce Skill Assessment		
Topic 25: Pharmacotherapy								
	Describe Pharmaco-therapy Periodontal dressings - Antibiotics & anti-inflammatory drugs - Local drug delivery systems	K/S/A	KH	MK	PBL	Written Exam Viva voce Objective Structural clinical examination	Pharmacotherapy	With dept of pharmacology
Topic 26: Periodontal treatment of medically compromised								
	management of medically compromised patients Topics concerning periodontal management of medically compromised patients	K/S	K	MK	PBL	Written Exam Viva voce		With other medical specialities
Topic 27: Pulpo- periodontal lesions								
	Discuss Inter-disciplinary care Pulpo-periodontal involvement - Routes of spread of infection - Simons' classification - Management	K/S	SH	NK	PBL	Written Exam Viva voce Objective Structural clinical examination Skill Assessment		With dept of conservative dentistry and endodontics
Topic 28: Periodontal medicine								
	Describe Systemic effects of periodontal diseases in brief Cardiovascular diseases, Low birth weight babies etc.	K/S/A	KH	DK	PBL	Written Exam Viva voce		With other medical specialities
Topic 29: Infection control protocol								
	Discuss Infection control protocol Sterilization and various aseptic procedures	K/S/A	KH	MK	PBL	Written Exam Viva voce Objective Structural clinical examination	Oral microbiology	With dept of microbiology
Topic 30: Patient management								
	Discuss Ethics	K/S	K	MK	PBL	Viva voce		



Paediatric and Preventive Dentistry

Sl. No	Course outcomes	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Pediatric dentistry								
Topic 1: Introduction to pediatric dentistry								
						No of Competencies: 4		
1.	Define Pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Discuss scope of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	With other dental and medical specialties.
3.	List objectives of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
4.	Describe the importance of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 2: Growth and development								
						No of Competencies: 4		
1.	Discuss importance of study of growth and development in Pedodontics.	K	K	MK	Large group	Written exam Viva voce	-	-
2.	List Prenatal and Postnatal factors in growth & development.	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Discuss theories of growth & development.	K	K/KH	MK	Large group	Written exam Viva voce	-	With dept. of Orthodontics
4.	Document Development of maxilla and mandible and related age changes.	K	K/KH/S	MK	Large group	Written exam Viva voce	Cephalometric analysis, growth assessment	With dept. of Orthodontics
Topic 3: Development Of Occlusion From Birth Through Adolescence.								
						No of Competencies: 1		
1.	Discuss variations and abnormalities.	K	K/KH	MK	Large group	Written exam Viva voce	-	With dept. of Oral pathology
Topic 4: Dental Anatomy and Histology								
						No of Competencies: 7		
1.	Describe development of teeth and associated structures.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Eruption and shedding of teeth.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Teething disorders and their management.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Describe Chronology of eruption of teeth.	K	K	MK	Large group	Written exam Viva voce	-	-
5.	Identify Differences between deciduous and permanent teeth.	K	K/KH/S	MK	Large group	Written exam Viva voce	-	-
6.	Present development of dentition from birth to adolescence.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
7.	Discuss Importance of first permanent molar.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
Topic 5: Dental Radiology Related to Pedodontics.								
						No of Competencies: 1		
5.1	Discuss dental radiology related to	K	K	NK	Large group	Written exam	Use of digital	With dept. of



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pedodontics						Viva voce	radiography	oral med. & Radiology
Topic 6: Oral Surgical Procedures in Children.								
No of Competencies: 3								
1.	List Indications and contraindications of extractions of primary and permanent teeth in children.	K	K/KH/S H/P	MK	Large group DOAP	Written exam Skill assessment Viva voce	-	-
2.	Knowledge of Local and General Anesthesia.	K	K/KH	MK	Large group	Written exam Viva voce Local anis. -Skill assessment	Painless LA delivery Conscious sedation	With dept. of oral surgery
3.	Describe Minor surgical procedures in children.	K	K/KH	NK	Large group	Written exam Viva voce	Hospital pediatric dentistry	With dept. of oral surgery
Topic 7: Dental Caries:								
No of Competencies: 7								
1.	Describe Historical background	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Definition, a etiology & pathogenesis	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Caries pattern in primary, young permanent and permanent teeth in children	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Clinical features, Complications & Management of Rampant caries, early childhood caries and extensive caries	K	K/KH/S/ SH	MK	Large group small group discussion	Written exam Viva voce	Oral microbiology	With dept. of Microbiology
5.	Discuss Role of diet and nutrition in Dental Caries	K	K	MK	Large group	Written exam Viva voce	-	-
6.	Describe Dietary modifications &	K/C	K/KH/	MK	Large group	Written exam Viva voce	-	-
	Diet counselling		SH		small group discussion			
7.	Describe Caries activity, tests, caries prediction, caries susceptibility & them clinical application	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 8: Gingival & Periodontal Diseases in Children.								
No of Competencies: 3								
1.	Describe features of Normal gingiva & periodontium in children.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
2.	Definition, a etiology & Pathogenesis.	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Prevention & Management of gingival & Periodontal diseases.	K	K	MK	Large group	Written exam Viva voce	Laser therapy	With dept. of Periodontics
Topic 9: Child Psychology:								
No of Competencies: 6								
1.	Define child psychology	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Theories of child psychology.	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Describe Psychological development of children with age.	K	K	MK	Large group	Written exam Viva voce	-	-
4.	Discuss Principles of psychological growth & development while managing child patient.	K	K	MK	Large group	Written exam Viva voce	-	-
5.	Discuss Dental fear and its management	K	K	MK	Large group	Written exam Viva voce	-	-
6.	List Factors affecting child's reaction	K	K	MK	Large group	Written exam	-	-



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	to dental treatment					Viva voce		
Topic 10: Behavior Management:								
						No of Competencies: 3		
1.	Define behavior management	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Types of behavior encountered in the dental clinic.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Non-pharmacological & pharmacological methods of Behavior Management.	K/S/A/C	K/KH/SH/P	MK	Large group	Written exam Viva voce DOPS/DOAP	Conscious sedation	-
Topic 11: Pediatric Operative Dentistry:								
						No of Competencies: 4		
1.	Describe Principles of Pediatric Operative Dentistry	K/S	K/KH/SH	MK	Large group	DOPS Skill assessment	Pre-clinical	-
2.	Discuss Modifications required for cavity preparation in primary and young permanent teeth.	K/S	K/KH/SH	MK	Large group	Written exam Viva voce	Minimal intervention	-
3.	Describe Various Isolation Techniques.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Demonstrate Restorations of decayed primary, young permanent and permanent teeth in children using various restorative materials like Glass Ionomer, Composites & Silver Amalgam. Stainless steel, Polycarbonate & Resin Crowns.	K/S	K/KH/SH	MK	Large group	DOPS Skill assessment	Use of newer materials	-
Topic 12: Pediatric Endodontics								
						No of Competencies: 3		
	Discuss Principles & Diagnosis	K	K/KH	MK	Large group	Written exam	-	-
	Classification of Pulpal Pathology in primary, young permanent & permanent teeth.	K	K/KH	MK	Large group	Viva voce Written exam Viva voce	-	-
	Describe Management of Pulp ally involved primary, young permanent & permanent teeth. • Pulp capping – direct & indirect. • Pulpotomy • Pulpectomy • Aerogenesis • Apexification • Obturation Techniques & material used for primary, young permanent & Permanent teeth in children.	K/S	K/KH/SH	MK	Large group	Written exam Viva voce	Use of digital radiography, apex locators magnifying loupes	With dept. of Conservative & Endodontics
Topic 13: Traumatic Injuries in Children.								
						No of Competencies: 3		
1.	Classifications & Importance.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Sequelae & reaction of teeth to trauma.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Management of Traumatized teeth.	K/S/A/C	K/KH	MK	Large group	Written exam Viva voce	Newer storage media	With dept. of Oral surgery
Topic 14: Preventive & Interceptive Orthodontics:								
						No of Competencies: 4		
1.	Define preventive & interceptive orthodontics	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Describe Problems encountered during primary and mixed dentition phases & their management.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Serial extractions.	K	K/KH	MK	Large group	Written exam	-	With dept. of



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4.	Describe Space management and identify space problems in children	K	KH/SH	MK	Large group small group teaching	Viva voce Written exam Viva voce OSCE	Simple fixed appliances Advances in techniques	Orthodontics -
Topic 15: ORAL HABITS IN CHILDREN. No of Competencies: 5								
1.	Definition, A etiology & Classification of oral habits	K	KH	MK	Large group	Written exam Viva voce	-	-
2.	Discuss and identify clinical features of digit sucking	K	KH/SH	MK	Large group DOAP PBL	Written exam Viva voce	-	-
3.	Discuss and identify tongue thrusting,	K	KH/SH	MK	Large group DOAP PBL	Written exam Viva voce	-	-
4.	Discuss and identify mouth breathing & various other secondary habits	K	KH/SH	MK	Large group DOAP PBL	Written exam Viva voce	-	-
5.	Describe Management of oral habits in children	K/S	KH/SH	MK	Large group	Written exam Viva voce	Recent treatment modalities	-
Topic 16: DENTAL CARE OF CHILDREN WITH SPECIAL NEEDS No of Competencies: 5								
1.	Definition, A etiology, Classification, Behavioral and Clinical features & Management of children with SHCN	K	KH	MK	Large group	Written exam Viva voce	Customized Oral health education for visually and communicatio n disorders	With special schools
2.	Definition, A etiology, Classification, Behavioral and Clinical features & Management of children with Physically handicapping conditions.	K	KH	MK	Large group	Written exam Viva voce	-	With dept. of oral surgery, dept. of prosthodontic s
3.	Definition, A etiology, Classification, Behavioral and Clinical features & Management of children with Mentally compromising conditions.	K	KH	MK	Large group	Written exam Viva voce	-	With special schools
4.	Definition, A etiology, Classification, Behavioral and Clinical features & Management of children with Medically compromising conditions.	K	KH	MK	Large group	Written exam Viva voce	-	With medical specialties
5.	Definition, A etiology, Classification, Behavioral and Clinical features & Management of children with Genetic disorders.	K	KH	NK	Large group	Written exam Viva voce	rare syndromes	With dept. of genetics
Topic 17: Congenital Abnormalities in Children: No of Competencies: 1								
6.	Definition, Classification, Clinical features & Management.	K	KH	NK	Large group	Written exam Viva voce	Cleft lip/palate Cardiac defects	With Jayadeva inst. Of Cardiovascula r sciences
Topic 18: Dental Emergencies in Children & Their Management. No of Competencies: 1								
	Discuss dental emergencies in children & their management	K	KH	MK	Large group	Written exam Viva voce	BLS/CPR	



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Topic 19: Dental Materials Used in Pediatric Dentistry.							No of Competencies: 1		
1	Discuss dental materials used in pediatric dentistry • Glass ionomer cement • Composite resins	K/S	K/KH/SH	MK	Large group	Written exam Viva voce Skill assessment	-	-	With industry for technical knowledge
Topic 20: Preventive Dentistry							No of Competencies: 4		
1	Define preventive dentistry.	K	K	MK	Large group	Written exam Viva voce	-	-	
2	Discuss Principles & Scope	K	K	MK	Large group	Written exam Viva voce	-	-	
3	Describe Types of prevention.	K	K	MK	Large group	Written exam Viva voce	-	-	
4	Perform Different preventive measures used in Pediatric Dentistry including pit and fissure sealants and caries vaccine.	K/S	K/KH/P	MK	Small group discussion Skill assessment	Written exam Viva voce OSCE	-	-	
5									
Topic 21: Dental Health Education & School Dental Health Programmes							No of Competencies: 1		
1	Counselling for Dental health education & school dental health programmes	K/S/A/C	K/KH/P	DK	Small group discussion	Written exam Viva voce	-	-	
Topic 22: Fluorides:							No of Competencies: 5		
1	Discuss Historical background.	K	K	MK	Large group	Written exam Viva voce	-	-	
2	Demonstrate use of Systemic & Topical fluorides.	K/S	K/KH/P	MK	Small group discussion Skill assessment	Written exam OSCE Viva voce	-	-	
3	Discuss Mechanism of action.	K	K	MK	Large group	Written exam Viva voce	-	-	
4	Describe Toxicity & Management.	K	K	MK	Large group	Written exam Viva voce	-	-	
5	Describe Defluorination techniques.	K	K	MK	Large group	Written exam Viva voce	-	-	
Topic 23: Case History Recording:							No of Competencies: 3		
1	Perform examination of child in dental operatory	K/S/A/C	K/KH/P	MK	Large group Small group DOAP Skill assessment	OSCE Viva voce	-	-	
2	Interpret diagnosis	K/S/A/C	K/KH/P	MK	Small group discussion Skill assessment	OSCE Viva voce	-	-	Newer technology
3	Inform treatment planning	K/S/A/C	K/KH/P	MK	Small group discussion Skill assessment PBL	OSCE Viva voce	-	-	With dept. of Oral Medicine & dept. of Oral Pathology
Topic 24: Setting Up of Pedodontics Clinic.							No of Competencies: 1		
1	Discuss Setting up of pedodontics clinic with respect to play area, zones, sterilization, machinery, and consultation area	K/A/C	K	DK	Large group	Written exam Viva voce	-	-	Dental practice in pandemic
Topic 25: Ethics.							No of Competencies: 1		
2	Discuss ethical aspects in pediatric dentistry	K	K	MK	Large group	Written exam	-	-	



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DEPARTMENT OF CONSERVATIVE AND ENDODONTICS

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Must know/ Nice to know/ <u>Desirable to know</u>	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
DENTAL MATERIALS								
Topic 1: STRUCTURE OF MATTER AND PRINCIPLES OF ADHESION.								
No of Competencies: 1								
DM 1.1	Describe crystalline and <u>non-crystalline</u> structure, Various Interatomic bonds and adhesion	K	K	MK	Large group (Lecture)	Written exam		
Topic 2 :IMPORTANT PHYSICAL PROPERTIES APPLICABLE TO DENTAL MATERIALS								
No of Competencies: 1								
DM 2.1	Define the following properties and describe its importance with relation to Dental Materials (Biological, Mechanical, Chemical, Thermal, Rheological, Color)	K	K/KH	MK	Large group (Lecture)	Written exam		-
Topic 3 :BIOLOGICAL CONSIDERATIONS IN USE OF DENTAL MATERIALS								
No of Competencies: 2								
DM 3.1	Define Biocompatibility and discuss various hazards resulting from Dental materials	K	K/KH	MK	Large group (Lecture)	Written exam	-	
DM 3.2	Describe toxicity and its levels of evaluation related to Dental Materials	K	K	MK	Large group (Lecture)	Written exam	-	
Topic 4 :GYPSUM & GYPSUM PRODUCTS								
No of Competencies: 06								
DM 4.1	Define Gypsum and classify its different products	K	K	MK	Large group (Lecture)	Written exam	-	
DM 4.2	Describe its manufacturing	K	K	DK	Large group (Lecture)	Written exam		
DM 4.3	Describe in details the various theories of Setting and factors affecting setting of Gypsum Products	K	K	MK	Large group (Lecture)	Written exam		
DM 4.4	Discuss various Properties of Dental Plaster and Dental Stone	K	K	MK	Large group (Lecture)	Written exam		
DM 4.5	Discuss the disinfectants and the methods of disinfecting gypsum products	K	K/KH	NK	Large group (Lecture)	Written exam		



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DM 4.6	Perform under assistance the manipulation of dental plaster and dental stone	K/S	KH/SH/P	MK	Small group, DOAP	Written exam, Practical Examination		
DM 4.6	Enlist the advantages, disadvantages, uses and differences between Dental Plaster and Dental stone	K	K	DK	Large group (Lecture)	Written exam		

Topic 5 : IMPRESSION MATERIALS USED IN DENTISTRY

No of Competencies: 08

DM 5.1	Define impression and discuss the purpose of making it	K	K	MK	Large group	Written exam		-
DM 5.2	Classify Impression Materials and discuss in details the ideal requirements of it	K	K	MK	Large group	Written exam	-	-
DM 5.3	Discuss in details the composition and role of ingredients of all Elastic and Inelastic Impression materials used in dentistry	K	K	MK	Large group	Written exam		
DM 5.4	Discuss the chemistry of setting and factors affecting setting of all Elastic and Inelastic Impression materials used in dentistry	K	K	MK	Large group	Written exam		
DM 5.5	Discuss the Working time, setting time, flow, accuracy, strength, flexibility, tear strength, dimensional stability, compatibility with cast & die materials incl., electroplating Biological properties: tissue reaction , Shelf life & storage of material, Infection control – disinfection of all impression materials used in dentistry	K	K	MK	Large group	Written exam		
DM 5.6	Discuss the manipulation with special emphasis on type of impression trays required, Adhesion to tray, instruments & equipments required.	K	K/KH	MK	Large group, Early clinical exposure	Written exam, Practical Exam and Viva voce		
DM 5.7	Discuss the recent advances in Impression materials	K	K	NK	Large group	Written exam		
DM 5.8	Discuss the advantages, disadvantages, uses of all the impression materials used in dentistry	K	K	MK	Large group	Written exam, Practical Exam, Viva Voce		
DM 5.9	Perform under supervision the manipulation of Zinc Oxide Eugenol impression paste and Alginate Impression material	K/S	KH/SH/P	MK	Small group, DOAP	Practical exam		

Topic 6 : SYNTHETIC RESINS USED IN DENTISTRY

No of Competencies: 12

DM 6.1	Define denture base and classify denture base materials	K	K	MK	Large group	Written exam	-	-
DM 6.2	Discuss the ideal requirements of Denture base materials	K	K	MK	Large group	Written exam	-	-
DM 6.3	Classify denture base resins and discuss the ideal requirements of it	K	K	MK	Large group	Written exam	-	-
DM 6.4	Define Polymerization. Discuss in details the types of polymerization, Addition and Condensation Polymerization, inhibition of polymerization	K	K	MK	Large group	Written exam		
DM 6.5	Discuss Crosslinking and copolymerization	K	K	MK	Large group	Written exam		
DM 6.6	Discuss the biological properties & allergic reactions, Physical properties,	K	K	MK	Large group	Written exam		



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	Porosities, Polymerization shrinkage, Crazeing, Solubility, Thermal properties , aesthetic properties of denture base resins							
DM 6.7	Discuss the modes of <u>polymerisation</u> : Heat activated, Chemically activated, Light activated, Mode of supply, application, composition, <u>polymerisation reaction</u> of each.	K	K	MK	Large group	Written exam		
DM 6.8	Discuss the technical considerations: Methods of manipulation for each type of resin.	K	K/KH	MK	Large group	Written exam, Viva voce		<u>Prosthodontics</u> preclinical
DM 6.9	Discuss the miscellaneous resins & techniques: Repair resins, Relining and rebasing	K	K	MK	Large group	Written exam		
DM 6.10	Define and discuss the short term and long-term soft-liners, temporary crown and bridge resins, Resin impression trays, Tray materials and Resin teeth, denture cleansers.	K	K	DK	Large group	Written exam		
DM 6.11	Discuss in details the infection control of denture base resins	K	K	DK	Large group	Written exam		
DM 6.12	Classify and discuss the Maxillofacial Prostheses materials	K	K	NK	Large group	Written exam		

Topic 7: RESTORATIVE RESINS No of Competencies: 07

DM 7.1	Classify Restorative Resins.	K	K	MK	Large group	Written exam		-
DM 7.2	Classify Composite resins. Discuss in details the composition and role of ingredients of it	K	K	MK	Large group	Written exam	-	-
DM 7.3	Discuss the polymerization mechanisms: Chemically activated, Light activated,	K	K	MK	Large group	Written exam	<u>Pre clinical</u> conservative dentistry	-

	Dual cure: Degree of conversion, Polymerization shrinkage							
DM 7.4	Discuss the properties ; Physical properties, Polymerization shrinkage, Coefficient of thermal expansion, water sorption, aesthetics, Biocompatibility – <u>microleakage</u> , pulpal reaction, pulpal protection	K	K	MK	Large group	Written exam	-	-
DM 7.5	Discuss the manipulation of composites: Techniques of insertion of Chemically activated, light activated, dual cure Polymerization, Finishing and polishing of restoration, Repair of composites.	K	K	MK	Large group	Written exam	- Pre clinical conservative dentistry	-
DM 7.6	Define Bonding and discuss the need for bonding, Acid - etch technique, Enamel bonding, Dentin bonding agents. Mode of bonding, Bond strength	K	K	MK	Large group	Written exam		-
DM 7.7	Enlist the applications of Composite resin and discuss the <u>sandwich</u> technique	K	K	MK	Large group	Written exam		

Topic 8: METAL AND ALLOYS No of Competencies: 05

DM 8.1	Discuss the Structure and <u>behaviour</u> of metals, Solidification of metals, mechanism of <u>crystallisation</u> amorphous & crystalline.	K	K	MK	Large group	Written exam		-
DM 8.2	Define and discuss Eutectic and <u>Pertectic alloys</u> .	K	K	MK	Large group	Written exam		-
DM 8.3	Discuss the Solid state reaction of other binary systems: Metallography & Heat <u>treatment</u> .	K	K	MK	Large group	Written exam	-	-
DM 8.4	Define tarnish and Corrosion. Discuss in details the types of corrosion	K	K	MK	Large group	Written exam		



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DM 8.5	Discuss the remedial measures to be taken to avoid corrosion	K	K	DK	Large group	Written exam		
Topic 9: Dental Amalgam No of Competencies: 07								
DM 9.1	Define Amalgam and classify silver alloys	K	K	MK	Large group	Written exam Viva voce	-	-
CD 9.2	Discuss in details the composition, role of ingredients of Low copper, High copper; admixed and <u>unicompositional</u> amalgam alloys	K	K	MK	Large group	Written exam		-
DM 9.3	Discuss in details the setting reaction of Low copper, High copper; admixed and <u>unicompositional</u> amalgam alloys	K	K	MK	Large group	Written exam	-	-
DM 9.4	Define and discuss trituration and condensation with respect to its types, advantages & disadvantages of each type	K	K	MK	Large group	Written exam	Pre-clinical conservative dentistry	Pre-clinical conservative dentistry
DM 9.5	Discuss the biological, chemical, physical, thermal, rheological properties with special emphasis on Delayed expansion and <u>Mercuroscopic</u> expansion	K	K	MK	Large group	Written exam		
DM 9.6	Discuss the manipulation with special emphasis on selection of alloy and proportioning	K	K/KH	MK	Large group	Written exam, Practical exam	<u>Pre clinical</u> conservative dentistry	<u>Pre clinical</u> conservative dentistry
DM 9.7	Perform under supervision trituration of Silver amalgam	K/S	KH/SH/P	MK	Small group, DOAP	Practical exam	<u>Pre clinical</u> conservative dentistry	<u>Pre clinical</u> conservative dentistry
DM 9.8	Discuss the uses, advantages, disadvantages of silver amalgam	K	K	MK	Large group	Written exam, Practical exam, viva voce		
DM	Discuss the mercury toxicity	K	K	DK	Large group	Written exam,		

9.7						Practical exam		
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Topic 10: DENTAL CEMENTS No of Competencies: 08								
DM 10.1	Define dental cements, classify it and discuss its ideal requirements	K	K	MK	Large group	Written exam	<u>Pre clinical</u> conservative dentistry -	-
DM 10.2	Discuss the composition and role of ingredients of Zn Oxide Eugenol, Zn Phosphate, Silicate, Glass <u>inomer</u> , Zn <u>polycarboxylate</u> , Silico phosphate, calcium hydroxide cement, cavity liner, cavity varnish, <u>Guttapercha</u> , MTA	S	P	MK	DOAS Small group teaching	DOPS Skill assessment	- Pre clinical conservative dentistry	-
DM 10.3	Discuss the setting reaction and factors affecting setting of Zn Oxide Eugenol, Zn Phosphate, Silicate, Glass <u>inomer</u> , Zn <u>polycarboxylate</u> , Silico phosphate, calcium hydroxide cement	K	K	MK	Large group	Written exam	<u>Pre clinical</u> conservative dentistry	
DM 10.4	Discuss the biological, chemical, physical, rheological, thermal properties, dimensional stability, adhesive properties and biomechanics of caries prevention of Zn Oxide Eugenol, Zn Phosphate, Silicate, Glass <u>inomer</u> , Zn <u>polycarboxylate</u> , Silico phosphate, calcium hydroxide cement, cavity liner, cavity varnish, <u>Guttapercha</u> , MTA	K	K	MK	Large group	Written exam	<u>Pre clinical</u> conservative dentistry	
DM 10.5	Discuss the manipulation with respect to instruments used, p/l ration, way of mixing of Zn Oxide Eugenol, Zn Phosphate, Silicate, Glass <u>inomer</u> , Zn <u>polycarboxylate</u> , Silico phosphate, calcium hydroxide cement	K	K	MK	Large group	Written exam	<u>Pre clinical</u> conservative dentistry	
DM	Perform under supervision the	K/S	KH/SH/	MK	Small group,	Practical exam	<u>Pre clinical</u> conservative dentistry	



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10.6	manipulation of Zn Oxide Eugenol and Zn Phosphate cement		P		DOAP			
DM 10.7	Discuss the recent advances in each dental cement	K	K	DK	Large group	Written exam		
DM 10.8	Discuss the uses, advantages, disadvantages of all the dental cements	K	K	DK	Large group	Written exam, Viva Voce		

Topic 11: Dental Casting Alloys No of Competencies: 05

DM 11.1	Define and classify dental casting alloys. Discuss in details its ideal requirements	K	K	MK	Large group	Written exam		-
DM 11.2	Discuss the Composition, role of constituents and application of each alloy both noble and base metal including Titanium alloys	K	K	MK	Large group	Written exam		
DM 11.3	Discuss in details the properties of alloys: Melting range, mechanical properties, hardness, elongation, modulus of elasticity, tarnish and corrosion.	K	K	MK	Large group	Written exam		
DM 11.4	Discuss in details the casting procedure and casting defects	K	K/KH	MK	Large group, Flipped classroom	Written exam	Dental casting lab	
DM 11.5	Discuss in details the hardening and softening heat treatments	K	K	DK	Large group	Written exam		

Topic 12: Dental Waxes No of Competencies: 4

DM 12.1	Classify dental waxes	K	K	MK	Large group	Written exam		
DM	Discuss ideal requirements, composition,	K	K	MK	Large group	Written exam		
12.2	role of ingredients of Inlay casting wax							
DM 12.3	Discuss the Properties: melting range, thermal expansion, mechanical properties, flow & residual stresses, ductility of Inlay casting wax	K	K	MK	Large group	Written exam		
DM 12.4	Discuss the composition, role of ingredients and uses of Modelling wax, sticky wax, Beading & Boxing wax, Spacer wax, Bite registration wax, impression wax	K	K	MK	Large group	Written exam, Practical exam		

Topic 13: DENTAL CASTING INVESTMENTS No of Competencies: 03

DM 13.1	Define Investment. Classify and Discuss the ideal requirements of Dental casting investment materials	K	K	MK	Large group	Written exam	-	-
DM 13.2	Discuss in details the composition, role of ingredients and setting reaction of Gypsum bonded, Phosphate bonded and silica bonded investment materials	K	K	MK	Large group	Written exam		
DM 13.3	Discuss in details the properties with special emphasis on Normal, thermal and hygroscopic setting expansion	K	K	MK	Large group	Written exam		

Topic 14: Dental Ceramics No of Competencies: 1

DM 14.1	Define and classify Dental Ceramics	K	K	MK	Large group	Written exam	-	-
DM 14.2	Discuss in details the composition, role of ingredients of Dental ceramics	K	K	MK	Large group	Written exam		
DM	Discuss in details methods of	K	K	MK	Large group	Written exam		



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14.3	strengthening dental ceramics							
DM 14.4	Discuss in details the fabrication of Ceramic with special emphasis on coping, condensation, firing and furnaces, glazing and finishing	K	K	MK	Large group, Early laboratory exposure	Written exam		
DM 14.5	Discuss the properties of dental ceramics- Strength and factors affecting, modulus of elasticity, surface hardness, wear resistance, thermal properties, specific gravity, chemical stability, esthetic properties, biocompatibility	K	K	MK	Large group	Written exam		
DM 14.5	Discuss the <u>Recent advances</u> -all porcelain restorations, <u>Manganese core</u> , <u>injection moulded castable ceramics</u> , <u>glass infiltrated alumina core ceramic (In ceram)</u> , <u>ceramic veneers</u> , <u>inlays and onlays</u> , and <u>CAD - CAM ceramic</u> .	K	K	MK	Large group	Written exam	Dental casting lab	
Topic 15: DIRECT FILLING GOLD No of Competencies: 4								
DM 15.1	Classify direct filling gold. Explain in detail about gold foil	K	K	MK	Large group (Lecture)	Written exam		
DM 15.2	Explain the different properties of <u>direct filling gold</u> .	K	K	MK	Large group (Lecture)	Written exam		
DM 15.3	Write down the indications & <u>contraindications</u> of direct filling gold.	K	K	MK	Large group (Lecture)	Written exam		
DM 15.4	Explain the manipulation <u>technique</u> of direct filling gold.	K	K	MK	Large group (Lecture)	Written exam		

Topic 16: SOLDERING, BRAZING AND WELDING and WROUGHT BASE METAL ALLOYS

No of Competencies: 10

DM 16.1	Define the term soldering, welding and <u>brazing</u> . Write down the indications of soldering in dentistry.	K	K	MK	Large group (Lecture)	Written exam		
DM 16.2	Define the term solder. Write in details about its ideal requirement and its types	K	K	MK	Large group (Lecture)	Written exam		-
DM 16.3	Define fluxes & anti fluxes. Write down its Function, Types, commonly used <u>fluxes</u> & their selection.	K	K	MK	Large group (Lecture)	Written exam		
DM 16.4	Explain the techniques of soldering with its technical consideration in details.	K	K	DK	Large group (Lecture)	Written exam		
DM 16.5	Define welding. What are the different <u>methods</u> of it. Explain in short about laser welding.	K	K	MK	Large group (Lecture)	Written exam		
DM 16.6	What are the different alloys used mainly for orthodontics purpose. Discuss in details about Stainless steel alloys.	K	K	MK	Large group (Lecture)	Written exam		
DM 16.7	What are the different properties required for orthodontic wires.	K	K	MK	Large group (Lecture)	Written exam		
DM 16.8	Discuss in details about composition, allocation, properties, heat treatment, physical properties of Wrought cobalt chromium nickel alloys	K	K	NK	Large group (Lecture)	Written exam		
DM 16.9	Write down in detail about Nickel – Titanium alloys.	K	K	NK	Large group (Lecture)	Written exam		
DM	Write down in details about Titanium	K	K	NK	Large group	Written exam		



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16.10	<u>alloys.</u>				(Lecture)			
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Topic 17: ABRASION & POLISHING AGENTS No of Competencies: 5

DM 17.1	Define the term abrasion and polishing. Explain the need of abrasion and polishing.	K	K	MK	Large group (Lecture)	Written exam	-	
DM 17.2	Discuss the different Types of abrasives, polishing agents and binders used for it with special emphasis on grading of abrasives..	K	K	MK	Large group (Lecture)	Written exam	-	
DM 17.3	Explain the factors affecting the rate of abrasion. Write down the ideal requirements of abrasive agents.	K	K	MK	Large group (Lecture)	Written exam		
DM 17.4	Write down the different materials and procedure used for abrasion and polishing agents.	K	K	NK	Large group (Lecture)	Written exam	Preclinical lab	
DM 17.5	What is Electrolytic polishing and <u>burnishing.</u>	K	K	DK	Large group (Lecture)	Written exam		

Topic 18: DENTAL IMPLANTS No of Competencies: 02

DM 18.1	What is dental implant? Explain the <u>evolution</u> of dental implant.	K	K	DK	Large group (Lecture)	Written exam	-	
DM 18.2	Write down the different types of dental <u>implants</u> . Discuss the different materials used for dental implants.	K	K	DK	Large group (Lecture)	Written exam		

Topic 19 : MECHANICS OF CUTTING No of Competencies:1

DM 19.1	What is dental bur and <u>points</u> . Explain the mechanism of tooth cutting.	K	K	MK	Large group	Written exam	<u>Pre clinical lab</u>	
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Topic 20: DIE AND DIE MATERIALS No of Competencies:02

DM 20.1	Define die and classify die materials and discuss the ideal requirements of die materials	K	K	MK	Large group	Written exam		
DM 20.2	Discuss the electroforming of Die	K	K/KH	NK	Large group	Written exam		



Conservative Dentistry & Endodontics

<u>Number</u>	<u>Course Outcomes</u>	<u>Domain</u> K/S/A/C	<u>Level</u> K/KH/SH/P	<u>Must know/Nice to know/Desirable to know</u>	<u>Teaching-Learning Methods</u>	<u>Assessment Methods</u>	<u>Vertical Integration</u>	<u>Horizontal Integration</u>
Conservative Dentistry & Endodontics								
Topic: Introduction to Conservative Dentistry						No of Competencies: 4		
CD 0.1	History & Objectives of Conservative Dentistry	K/C	K	MK	Large group teaching	Written Exam <u>ViVa</u> Voice	-	-
CD 0.2	<u>Defination</u> of Conservative Dentistry	C	K	MK	Large group teaching	Written Exam <u>ViVa</u> Voice	-	-
CD 0.3	Indications	K	K	MK	Large group teaching	Written Exam <u>ViVa</u> Voice	-	-
CD 0.4	Scope of Conservative Dentistry	K/S	K	MK	Large group teaching	Written Exam <u>ViVa</u> Voice	-	-
Topic : Nomenclature of Dentition						No of Competencies: 5		
CD 1.1	Nomenclature	K/S	K	MK	Large group (FC)	Written exam Viva voice	<u>Pre clinical</u> conservative dentistry	Dental Anatomy and histology
CD 1.2	<u>Defination</u>	K/C	K	MK	Large group (FC)	Written exam Viva voice	-	-
CD 1.3	Terminology of tooth surfaces	K/C	K	MK	Large group (FC)	Written exam Viva voice	-	-
CD 1.4	Terminology of Caries	K/C	K	MK	Large group (FC)	Written exam Viva voice	- Pre clinical conservative dentistry	- Dental Anatomy and histology
CD 1.5	Tooth numbering systems A.D.A. Zsigmondy Palmer and F.D.I. systems	K/C	K	Mk	Large group (FC)	Written exam Viva voice	- Pre clinical conservative dentistry	-
Topic 2: Principles Of Cavity Preparation						No of Competencies: 4		
CD 2.1	Explain Steps of cavity preparation	S/A/C	K/P	MK	Large group Small group	Written exam Viva voice OSPE	- Pre clinical conservative dentistry	-
CD 2.2	Describe nomenclature of cavity preparation	K/S/A/C	K/P	MK	Large group Small group	Written exam Viva voice OSPE	- Pre clinical conservative dentistry	-
CD 2.3	Explain classification of cavities.	K/C/A	K/P	MK	Large group Small group	Written exam Viva voice OSPE	- Pre clinical conservative dentistry	-
CD 2.4	Explain nomenclature of floors angles of cavities	S/A/C	K/P	MK	Large group Small group	Written exam Viva voice OSPE	- Pre clinical conservative dentistry	-
Topic3: Dental Caries						No of Competencies: 6		
3.1	Explain <u>Aetiology</u> of Dental Caries	K/S	K	MK	Large group	Written Exam Viva voice	Oral Pathology	-



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3.2	Explain classification of Dental Caries	K/S	K	MK	Large group	Written Exam Viva voice OSPE	-	-
3.3	Describe clinical features of Dental Caries	K/S	K	MK	Large group	Written Exam Viva voice	- Pre clinical conservative dentistry	-Pedodontics
3.4	Describe morphological features of Dental Caries	K/S	K	MK	Large group	Written Exam Viva voice	-	-
3.5	Describe microscopic features	K/S	K	MK	Large group	Written Exam Viva voice	Oral Pathology	-
3.6	Describe clinical diagnosis and sequel of dental caries.	K/S	K	MK	Large group	Written Exam Viva voice	-	-

Topic 4 : Treatment Planning for Operative Dentistry

No of Competencies: 5

CD 4.1	Detailed clinical examination	K/S/A	KH/SH	MK	Large group PBL	Written Exam Viva Voice	-	-
4.2	radiographic examination	K/S/A	KH/SH	MK	Large group PBL	Written Exam Viva Voice	-	-Oral medicine and radiology
4.3	, tooth vitality tests,	K/S/A	KH/SH	MK	Large group PBL	Written Exam Viva Voice	-	-
4.4	, diagnosis and treatment planning,	K/S/A	KH/SH	MK	Large group PBL	Written Exam Viva Voice	-	-
4.5	, preparation of the case sheet.	K/S/A	KH/SH	MK	Large group PBL	Written Exam Viva Voice	-	-

Topic 5 : Gnathological Concepts of Restoration

No of Competencies: 5

CD 5.1	Physiology of occlusion,	K	K	MK	Large group	Written exam Viva voice	Pre-clinical <u>Conservative</u>	-
CD 5.2	normal occlusion	K	K	MK	Large group Small group	Written exam Viva voice	- Pre- clinical <u>Conservative</u>	-
CD 5.3	Ideal occlusion,	K	K	MK	Large group Small group	Written exam Viva voice	Pre-clinical <u>Conservative</u>	-
CD 5.4	mandibular movements and occlusal analysis	K/S	SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	Pre-clinical <u>Conservative</u>	-
CD 5.5	Occlusal rehabilitation and restoration.	K/S	SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	Pre-clinical <u>Conservative</u>	-



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Topic 6 : <u>Aramamentarium For Cavity Preparation</u> No of Competencies: 4								
CD 6.1	Explain General classification of operative instruments, and sharpening of instruments.	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	- Pre-clinical <u>Conservativ</u> e	-
CD 6.2	Explain Hand cutting instruments design formula	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	- Pre-clinical <u>Conservativ</u> e	-
CD 6.3	Explain Rotary cutting instruments dental bur, mechanism of cutting, evaluation of hand piece and speed current concepts of <u>rotary cutting procedures</u> .	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	- Pre-clinical <u>Conservativ</u> e	-
CD 6.4	<u>Sterilisation</u> and maintenance of instruments. Basic instrument tray set up.	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	Pre-clinical <u>Conservativ</u> e	-
Topic 7: Control of Operating Field No of Competencies: 4								
CD 7.1	Light source <u>sterilisation</u> .	K	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	-	-
CD 7.2	Explain field of operation control of moisture,	K	K/KH	MK	Large group Small group	Written exam Viva voice Skill Assessment	-	-
CD 7.3	Describe rubber dam in detail,	K	K/KH	MK	Large group Small group	Written exam Viva voice Skill	<u>Pre-clinical</u> conservative dentistry	-
CD 7.4	Describe Cotton rolls & anti <u>sialogagues</u> .	K	K/KH	MK	Large group Small group	Assessment Written exam Viva voice Skill Assessment	- Pre-clinical conservative dentistry	-
Topic 8: Amalgam Restoration No of Competencies: 4-								
CD 8.1	Indication <u>contraindication</u> , clinical <u>behaviour</u> .	K	K/KH/P /SH	MK	Large group Small group	Written exam Viva voice Skill Assessment OSPE	Pre-clinical <u>Conservativ</u> e	Dental Material
CD 8.2	physical and mechanical properties ,	K	K/KH/P /SH	MK	Large group Small group	Written exam Viva voice Skill Assessment OSPE	Pre-clinical <u>Conservativ</u> e	- Dental Material
CD 8.3	Cavity preparation for Class I, II, V and III. Step wise procedure for cavity preparation and restoration.	K/S	K/KH/P /SH	MK	Large group Small group	Written exam Viva voice Skill Assessment OSPE	Pre-clinical <u>Conservativ</u> e	- Dental Material
CD 8.4	Failure of amalgam restoration.	K	K/KH/P /SH	MK	Large group Small group	Written exam Viva voice Skill Assessment OSPE	Pre-clinical <u>Conservativ</u> e	- Dental Material
Topic 9: Pulp Protection No of Competencies: 5								
CD 9.1	Describe Liners, varnishes and bases.	K	K/KH	MK	Large group Small group	Written exam Viva voice	Pre-clinical <u>Conservativ</u>	-



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						Skill Assessment OSPE	e	
CD 9.2	Zinc phosphate	K/S	K/KH/P /SH	MK	Large group Small group	Written exam Viva voce Skill Assessment OSPE	Pre-clinical <u>Conservative</u>	-
CD 9.3	zinc polycarboxylate	K	K/KH	MK	Large group Small group	Written exam Viva voce Skill Assessment OSPE	Pre-clinical <u>Conservative</u>	-
CD 9.4	zinc oxide eugenol	K/S	K/KH	MK	Large group Small group	Written exam Viva voce Skill Assessment OSPE	Pre-clinical <u>Conservative</u>	-
CD 9.5	glass inomer cements.	K/S	K/KH/P /SH	MK	Large group Small group	Written exam Viva voce Skill Assessment OSPE	Pre-clinical <u>Conservative</u>	-

Topic 10: Anterior Restorations

No of Competencies : 6

CD 10.1	Describe Selection of cases, ,	K	K/KH	MK	Large group	Written exam Viva voce	-	-
CD 10.2	selection of material	K	K/KH	MK	Large group	Written exam Viva voce	-	-
CD 10.3	step wise procedures for using restorations silicate (theory only)	K	K/KH	MK	Large group Small group	Written exam Viva voce Skill	Pre-clinical <u>Conservative</u>	Dental Material

	glass inomers, composites					Assessment for Glass Ionomer		
CD 10.4	sand witch restorations	K	K/KH	MK	Large group	Written exam Viva voce	-	-
CD 10.5	Bevels	K	K/KH	MK	Large group	Written exam Viva voce	-	-
CD 10.6	note on status of the dentine bonding agents	K	K/KH	MK	Large group	Written exam Viva voce	-	-

Topic 11: Direct Filling Gold Restorations

No of Competencies: 1

CD 11.1 -10	Types of direct filling gold indications and limitations of cohesive gold. Annealing of gold foil cavity preparation and condensation of gold foils.	K	K	NK	Large group	Written exam Viva voce	-	-
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Topic 12: Preventive Measures In Restorative Practice

No of Competencies: 2

CD 12.1	Plaque Control, Pitand fissure sealants dietary measures restorative procedure and periodontal health	K	K	MK	Large group Small group	Written exam Viva voce		
CD 12.2	. Contact and contour of teeth and restorations matrices tooth separation and wedges	K/S	K/SH/P	MK	Large group Small group	Written exam Viva voce Skill Assessment OSPE	Pre-clinical <u>Conservative</u>	-



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Topic 13: Temporisation or Interim Restoration. No of Competencies: 1								
CD 13.1	Temporisation or Interim Restoration.	K	K	MK	Large group Small group teaching	Written exam Viva voce	-	-
Topic 14: Pin Amalgam Restoration No of Competencies: 1								
CD 14.1	Describe the Indication Contra Indication : Advantages disadvantages of each types of pin methods of placement use of auto matrix. Failure of pin amalgam restoration.	K	KH	MK	Large group	Written exam Viva voce	-	-
Topic 15: Management Of Deep Carious Lesions No of Competencies: 1								
CD 15.1	Explain Indirect And Direct Pulp Capping	K	KH	MK	Large group	Written exam Viva voce	-	-
Topic 16: Non Carious Destruction's Tooth Structures Diagnosis and Clinical Management No of Competencies: 1								
CD 16.1	Describe Non Carious Destruction's Tooth Structures Diagnosis and Clinical Management	K	KH	MK	Large group	Written exam Viva voce	Oral Medicine & <u>Radilogy</u>	-
Topic 17: Hyper Sensitive Dentine And Its Management. No of Competencies: 1								
CD 17.1	Describe Hyper Sensitive Dentine And Its Management.	K	KH	MK	Large group PBL	Written exam Viva voce	-	-
Topic 18: Cast Restorations No of Competencies: 1								
CD 18.1	Describe Cast Restorations Indications, contra indications, advantages and disadvantages and materials used for same Class II and Class I cavity preparation for inlays fabrication of wax pattern spurring inverting and casting procedures & casting defects	K	K	MK	Large group	Written exam Viva voce	- Pre clinical <u>Conservative</u>	-
Topic 19: Die Materials And Preparation Of Dies. No of Competencies: 1								
CD 19.1	Die Materials And Preparation Of Dies.	K	K	NK	Large group teaching	Written Exam <u>Viva Voice</u>	-	-
Topic 20: Gingival Tissue Management For Cast Restoration And Impression Procedures No of Competencies: 5								
CD 20.1	Gingival Tissue Management For Cast Restoration And Impression Procedures	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 21: Recent Cavity Modification Amalgam Restoration. No of Competencies: 1								
CD 2.1	Recent Cavity Modification Amalgam Restoration.	K	K	MK	Large group	Written exam Viva voce	-	-



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Topic22: Differences between Amalgam And Inlay Cavity preparation

No of Competencies: 1

22.1	Differences between Amalgam And Inlay Cavity preparation with note on all the types of <u>Bewels</u> used for Cast Restoration.	K	K/SH/P	MK	Large group Small group	Written exam Viva voice Skill Assessment	-	-
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Topic 23: Control Of Pain During Operative Procedures.

No of Competencies: 1

CD 23.1	Control Of Pain During Operative Procedures.	K/S/A	KH/SH	MK	Large group Small group	Written Exam Viva Voice Skill Assessment	-	-
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Topic 24 : Treatment Planning For Operative Dentistry No of Competencies: 5

CD 24.1	Treatment Planning For Operative Dentistry Detailed Clinical Examination Radiographic Examination	K/S/A	KH/SH	MK	Large group Small group	Written Exam Viva Voice Skill Assessment	-	-
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Topic 25 : Vitality Tests, Diagnosis And Treatment Planning And Preparation Of Case Sheet.

No of Competencies: 4

CD 25.1	Vitality Tests, Diagnosis And Treatment Planning And Preparation Of Case Sheet.	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	Oral Medicine & Radiology	-
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Topic 26: Applied Dental Materials No of Competencies: 4

CD 26.1	1. Biological Considerations. Evaluation, clinical application and adverse effects of the following materials. Dental cements, Zinc oxide <u>eugenol</u> cements zinc phosphate cements, <u>polycarboxylates</u> glass ionomer cements, silicate cement calcium hydroxides varnishes	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	- Pre clinical <u>Conservative</u>	-
CD 26.2	. 2. Dental amalgam, technical considerations mercury toxicity mercury hygiene	K/S	K/SH	MK	Large group Small group	Written exam Viva voice Skill Assessment	- Pre clinical conservative dentistry	-
CD 26.3	3. Composite, Dentine bonding agents, chemical and light curing composites	K	K	MK	Large group	Written exam Viva voice	- Pre clinical conservative dentistry	-
CD 26.4	. 4. Rubber base Imp. Materials	K	K	MK	Large group	Written exam Viva voice	-	-
CD 26.5	5. Nobel metal alloys & non noble metal alloys	K	K	MK	Large group	Written exam Viva voice	-	-
CD 26.6	6. Investment and die materials	K	K	MK	Large group	Written exam Viva voice	-	-
CD 26.7	7. Inlay casting waxes	K	K	MK	Large group	Written exam Viva voice	-	-
CD 26.8	8. Dental porcelain	K	K	MK	Large group	Written exam Viva voice	-	-
CD 26.9	9. Aesthetic Dentistry	K	K	MK	Large group	Written exam	-	-



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26.9						Viva voce		
Topic 27: Endodontics		No of Competencies: 1						
CD 27.1	Introduction definition scope and future of endodontics	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 28: Clinical diagnostic methods		No of Competencies: 1						
CD 28.1	Clinical diagnostic methods	K	K	MK	Large group Small group	Written exam Viva voce PBL	- Demonstrati on on patients	-
Topic 29: Emergency endodontic procedures		No of Competencies : 1						
CD 29.1	Emergency endodontic procedures	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 30: Pulpal diseases		No of Competencies: 1						
CD 30.1	Pulpal diseases causes, types and treatment.	K	K	MK	Large group Small group	Written exam Viva voce PBL	-	Oral Pathology
Topic 31: Periapical diseases		No of Competencies: 1						
CD 31.1	acute periapical abscess, acute periodontal abscess, <u>phoenix</u> abscess,	K	K	MK	Large group Small group	Written exam Viva voce	-	-
	chronic alveolar abscess granuloma cysts condensing osteitis. <u>external</u> resorption.							
Topic 32: Vital pulp therapy.		No of Competencies: 1						
CD 32.1	indirect and direct pulp capping <u>pulpotomy</u> <u>different</u> types and medicaments used.	K	K	MK	Large group Small group teaching	Written exam Viva voce Skill Assessment	<u>Pedodontia</u>	-
Topic 33: <u>Apexogenesis</u> and <u>apexification</u> or problems of open apex.		No of Competencies: 1						
CD 33.1	Describe <u>Apexogenesis</u> and <u>apexification</u> or problems of open apex.	K	K	MK	Large group Small group	Written exam Viva voce	-	-
Topic 34: Rationale of endodontic treatment		No of Competencies: 1						
CD 34.1	Rationale of endodontic treatment case selection indication and contraindications for root canal <u>treatments</u> .	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 35: Principles of root canal treatment mouth preparation root canal		No of Competencies: 1						
CD 16.1	• Describe Principles of root canal treatment mouth preparation root canal	K	K	MK	Large group	Written exam Viva voce	-	-

Art



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	instruments, hand instruments, power driven instruments, <ul style="list-style-type: none"> • <u>standardisation</u> color coding principle of using endodontic instruments. • <u>Sterilisation</u> of root canal instruments and materials • <u>rubber</u> dam application. 							
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Topic 36 Anatomy of the pulp cavity:~~~~~No of Competencies: 1

CD 36.1	Anatomy of the pulp cavity: root canals apical foramen. Anomalies of pulp cavities access cavity <u>preparation</u> of anterior and premolar teeth.	K	K	MK	Large group	Written exam Viva voce	- Demonstrati on on patients	-
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Topic 37: Preparation of root canal space No of Competencies: 1

CD 37.1	Describe Preparation of root canal <u>space</u> . Determination of working length, cleaning and shaping of root canals, irrigating solution chemical aids to instrumentation	K	K	MK	Large group	Written exam Viva voce	-	-
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Topic 38: Disinfection of root canal space No of Competencies: 1

CD 38.1	Disinfection of root canal space <u>intracanal</u> medicaments, poly antibiotic <u>paste</u> <u>ross mans</u> paste, mummifying agents. <u>Out line</u> of root canal treatment, bacteriological examinations, culture methods	K	K	NK	Large group teaching	Written Exam <u>Viva</u> Voice	-	-
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Topic 39: Problems during cleaning and shaping of root canal spaces No of Competencies: 1

CD 39.1	Problems during cleaning and shaping of root canal spaces. Perforation and its management. Broken instruments and its management, management of single and double curved root canals.	K	K	MK	Large group	Written exam Viva voce	-	-
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Topic 40 : Methods of cleaning and shaping No of Competencies: 1

CD 40.1	Methods of cleaning and shaping like step <u>back</u> crown down and conventional methods.	K	K	MK	Large group	Written exam Viva voce	-	-
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Topic41: Obturation of the root canal system No of Competencies: 1

41.1	. <u>Obturation</u> of the root canal system. Requirements of an ideal root canal filling material <u>obturation</u> methods using	K	K	MK	Large group	Written exam Viva voce	-	-
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	<u>gutta percha</u> healing after endodontic <u>treatment</u> . Failures in endodontics.							
Topic 42: Root canal sealers No of Competencies: 1								
CD 42.1	. Root canal sealers. Ideal properties classification. Manipulation of root canal sealers.	K	K	MK	Large group	Written exam Viva voice	-	-
Topic 43 : post endodontic restoration fabrication No of Competencies: 1								
CD 43.1	<u>post</u> endodontic restoration fabrication and components of post core preparation.	K	K	MK	Large group	Written exam Viva voice	<u>Prosthodontics</u>	-
Topic 44 : smear layer. No of Competencies: 1								
CD 25.1	<u>smear</u> layer and its importance in endodontics and conservative treatment..	K	K	MK	Large group	Written exam Viva voice	-	-
Topic 45: Discoloured Teeth And Its Management No of Competencies: 1								
CD 45.1	<ul style="list-style-type: none"> • <u>Discoloured Teeth And Its Management.</u> • Bleaching Agents, • Vital And Non Vital Bleaching 	K	K	MK	Large group	Written exam Viva voice	-	-
	Methods.							
Topic 46: Traumatized teeth No of Competencies: 1								
CD 46.1	<u>traumatized</u> teeth classification of fractured teeth. Management of fractured tooth and root. <u>Luxated</u> teeth and its management.	K	K	MK	Large group	Written exam Viva voice	-	-Oral Surgery
Topic 47: endodontic surgeries No of Competencies: 1								
CD 47.1	<ul style="list-style-type: none"> • Endodontic Surgeries Indication Contraindications, • <u>Pre Operative</u> Preparation. • Pre Medication • Surgical Instruments And Techniques <u>Apicectomy.</u> • Retrograde Filling, • <u>Post Operative Sequale</u> • Trephination • <u>Hemisection.</u> • <u>Radiscetomy</u> • Techniques Of Tooth Reimplantation (Both Intentional And Accidental) Endodontic Implants 	K	K	DK	Large group	Written exam Viva voice	Oral Surgery	-
Topic 48: root resorption No of Competencies : 1								
CD 48.1	root resorption	K	K	MK	Large group	Written exam Viva voce	-	-



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Topic 49: emergency endodontic procedures. No of Competencies: 1

CD 49.1	emergency endodontic procedures.	K	K	MK	Large group	Written exam Viva voce	-	-
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Topic 50: lasers in conservative endodontics No of Competencies: 1

CD 50.1	lasers in conservative endodontics (introduction only) practice management	K	K	DK	Large group	Written exam	-	-
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Topic 51: professional association dentist act No of Competencies: 1

CD 51.1	professional association dentist act 1948 and its amendment 1993	K	K	DK	Large group	Written exam	-	-
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Topic 52: duties towards the govt No of Competencies: 1

CD 52.1	duties towards the govt. Like payments of professional tax, income tax.	K	K	DK	Large group	-	-	-
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Topic 53: financial management of practice No of Competencies: 1

CD 53.1	financial management of practice	K	K	DK	Large group	-	-	-
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Topic 54: dental material and basic equipment management. No of Competencies: 1

CD 54.1	dental material and basic equipment management.	K	K	MK	Large group	Written exam Viva voce	-	-
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Topic 55 Ethics No of Competencies: 1

CD 55.1	Ethics	K	K	MK	Large group	Written exam Viva voce	-	-
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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

Course outcomes	Domain K/S/A/C	Must know/ Nice to know/ Desirable to know MK/NK/DK	Teaching- Learning Methods	Assessment Methods	Vertical integration	Horizontal integration
Classification of Malocclusion						
Understand the need for classification	K	DK	lecture	Theory	Diagnosis and treatment planning	
Enumerate various classification systems Describe Angle's , Bennet' s , Lischer's , Simons, Ackerman-Proffit Classifications Dewey's Modification with diagrams	K K and S	MK MK	Demonstration lecture	Theory viva voce		
XClassify different methods of malocclusion. WHO classification, Katz Classification, Incisor Classification, Canine Classification.	K K	MK DK	lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal integration
Introduction to Orthodontics						
1. Understand and explain the term Orthodontics.	K	MK	Lecture	Theory		
2. Describe History of Orthodontics	K	MK	Lecture	Theory		
3. Describe the aims and objectives achieved in orthodontics. (Schematic diagram of Jackson's Triad)	K S	MK	Lecture	Theory and viva voce		
4. Describe the scope of Orthodontics	K	M	Lecture	Theory		With dept of Pedodontics
Draw the schematic Venn diagram	K S	MK	Lecture and demonstration	Theory		
Explain in detail importance of each group	K	MK	Lecture	Theory		With dept of pedodontics
Explain co-relation of groups	K	MK	Lecture	Theory		With dept of pedodontics



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
General Principles in Orthodontic Treatment Planning of Dental and Skeletal Malocclusions						
Enumerate and describe its branches.	K	MK	Lecture	Theory		
Scope of various branches	K	MK	Lecture	Theory		
Identify the need for prevention, interception and correction as per the malocclusion.	K K	MK MK	Lecture Demonstration	Theory Theory		With dept of pedodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Classification of malocclusion						
Explain the basis of Angle's classification.	K	MK	Lecture	Theory	Diagnosis and treatment planning	
Explain the various types of malocclusion given by Angle with help of well labeled diagrams.	K & S	MK	Lecture Demonstration	Theory		
Differentiate between true and pseudo class III	K	MK	Lecture Demonstration	Theory		
Explain the drawbacks of this classification.	K	MK	Lecture	Theory		
Explain Angle's class IV type of malocclusion	K	NK	Lecture	Theory		

Explain Dewey's modification to Angle's class I and class III and draw appropriate diagrams	K S	MK	Lecture	Theory		
Explain Lischer's classification and draw appropriate diagrams	K S	NK	Lecture	Theory		
Explain Bennet's classification and draw appropriate diagrams	K S	NK	Lecture	Theory		
Explain Simons Classification and draw appropriate diagrams	K S	NK	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Etiology of malocclusion

Describe and explain the causes of a malocclusion	K	MK	Lecture	Theory		
Describe the classification based on causes	K	MK	Lecture	Theory		
Identify the situations that can be either prevented or intervened	K	MK	Lecture	Theory		
Describe measures to avoid the severity of malocclusion	K	MK	Lecture	Theory		
Enumerate and explain all the general factors considered responsible for the malocclusion	K	DK	Lecture	Theory		With dept of pedodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Habits

Mouth breathing

Describe the mouth breathing habit in detail with its effect and management	K	MK	Lecture	Theory		With dept of pedodontics
Enumerate and describe all the other miscellaneous habit with their prevention and management.	K	MK	Lecture	Theory		With dept of pedodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Bruxism

Describe Bruxism its causes and effects.	K	NK	Lecture	Theory		With dept of conservative and endodontics
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Describe masochistic habit its causes and effects	K	NK	Lecture	Theory		
Describe frenum thrusting, bobby pin opening habits, its causes and management.	K	NK	Lecture	Theory		With dept of periodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Removable orthodontic appliances

Define the term removable appliance	K	MK	Lecture	Theory		
Enumerate and discuss in detail various classification of the removable appliance	K	MK	Lecture	Theory		
Explain the action or principle of removable appliance	K	MK	Lecture	Theory		
Enumerate all the components in passive and active appliances, with their importance	K	MK	Lecture Demonstration	Theory Spotting Viva voce		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical integration	Horizontal Integration
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Components of removable appliance

Different types of clasps and their uses

Enumerate different types of clasp	K	MK	Lecture Demonstration	Theory Spotting Viva voce		
Understand their fabrication and fabricate	K S	MK	Lecture Demonstration	Theory Fabrication evaluation	Clinical demonstration on study models	
Explain their mode of action	K	MK	Lecture Demonstration	Theory		
Indicate specific clasp for specific malocclusion	K	MK	Lecture Demonstration	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal integration
Different types of springs and their uses						
Enumerate different types of springs	K	MK	Lecture	Theory Spotting Practical		
Understand their fabrication and fabricate	K S	MK	Lecture Demonstration	Theory Fabrication evaluation	Clinical demonstration on study models	
Explain their mode of action	K	MK	Lecture Demonstration	Theory		
Indicate specific spring for specific malocclusion	K	NK	Lecture Demonstration	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Diagnosis And Diagnostic Aids						
Importance of case history and clinical examination in orthodontics						
Describe the case history, and identify the problem	K	MK	Lecture Demonstration	Theory	Clinical examination of patient	
Describe the etiology	K	MK	Lecture	Theory		
Describe the database of pertinent information	K	MK	Lecture	Theory		
Council the patient for his/her problem	K	MK	Lecture Demonstration	Theory		
Enumerate the treatment planning steps	K	MK	Lecture Demonstration	Theory		
Describe the protocol for patient's clinical examination	K	MK	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Study Models						
Define and explain the importance of model analysis.	K	MK	Lecture	Theory		
Describe the procedure for Pont's index, Linder <u>Harth's</u> index, <u>Chadda's</u> index	K	MK	Lecture Demonstration	Theory Practical evaluation	With the help of study models and radiographs	With dept of oral medicine and radiology
Interpret inter maxillary symmetry. Analyze antero posterior symmetry.	K	MK	Lecture Demonstration	Theory		
Describe palatal height index.	K	MK	Lecture Demonstration	Theory Practical		
Know <u>bolton's</u> analysis.	K	MK	Lecture Demonstration	Theory Practical Evaluation		
Do space analysis in permanent dentition. Do space analysis in mixed dentition.	K	MK	Lecture Demonstration	Theory Practical Evaluation	With the help of study models and radiographs	

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Methods of gaining space in the arch						
Explain various methods of expansion of the dental arches	K	MK	Lecture Demonstration	Theory Viva voce spotting		
Explain the schedule for activation in RME	K	MK	Lecture Demonstration	Theory Fabrication Evaluation		
Explain the various methods for <u>distalization</u> of molars	K	MK	Lecture Demonstration	Theory Fabrication Evaluation		



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Enumerate the various methods of gaining space	K	MK	Lecture	Theory		With dept of Pedodontics and oral surgery
Explain in detail the procedure of proximal stripping	K	MK	Lecture Demonstration	Theory		
Explain in detail the need for extraction as a method of gaining space	K	MK	Lecture	Theory		With dept of oral surgery

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Interceptive Orthodontics

Define interceptive orthodontics	K	MK	Lecture	Theory		
Enumerate and explain the procedures undertaken in interceptive orthodontics	K	MK	Lecture	Theory		
Define serial extraction, indications, contraindication, advantages, disadvantages	K	MK	Lecture	Theory		With dept of oral surgery and pedodontics
Explain the methods of serial extraction	K	MK	Lecture	Theory		
Enumerate and explain the methods of space regaining	K	MK	Lecture	Theory		
Describe correction of <u>crossbite</u> and abnormal habits.	K	MK	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
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Preventive Orthodontics

Enumerate various preventive measures undertaken in orthodontics	K	MK	Lecture	Theory		With dept of pedodontics
Understand the importance of parental counseling	K	MK	Lecture	Theory		
Define and explain various methods of space maintenance	K	MK	Lecture Demonstration	Theory		With dept of pedodontics



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Principles of welding and soldering						
Define liquidus, solidus temperature, soldering, brazing.	K	MK	Lecture	Theory		
Various heat sources and fuels used in soldering.	K	MK	Lecture	Theory		
Should be able to explain substrate material.	K	MK	Lecture	Theory		
Flux and its types.	K	MK	Lecture	Theory		
Various soldering material.	K	MK	Lecture	Theory	Dental materials	With dept of prosthodontics and conservative dentistry

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Enumerate steps in soldering	K	MK	Lecture Demonstration	Theory	Clinical laboratory	
Explain quenching	K	MK	Lecture Demonstration	Theory		
Define welding and various methods of welding	K	MK	Lecture Demonstration	Theory		



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DEPARTMENT OF ORAL SURGERY

Course outcomes	Domain K/S/A/C	Must know/ Nice to know/ Desirable to know MK/NK/DK	Teaching- Learning Methods	Assessment Methods	Vertical integration	Horizontal integration
DIAGNOSIS IN ORAL SURGERY						
History taking.	K and S and A	MK	Large group Lecture	Theory Practical Evaluation		
Clinical examination. Inspection, palpation, percussion of maxillofacial region.	K and S and C K and S	MK MK	Small group Demonstration Lecture	Theory viva voce Practical evaluation		
Methods of investigation. Recording blood pressure. To be able to read various X-rays and scans. To understand methods of biopsy.	K and S	MK MK MK DK	Small group Lecture Demonstr ation Viva voce	Theory Practical Evaluatio n		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal integration
INTRODUCTION TO ORAL SURGERY.						
1. Define oral surgery.	K	MK	Large group Lecture	Theory and viva voce		
2. Discuss scope of oral surgery.	K	MK	Large group Lecture	Theory		
3. List objectives of oral surgery.	K	MK	Large group Lecture	Theory and viva voce		
4. Describe the importance of oral surgery.	K	DK	Large group Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
INFECTION CONTROL.						
Principles of infection control.	K	MK	Large group Lecture	Theory Discussion Viva voce		
Types of sterilization methods in oral surgery.	K	MK	Large group Lecture	Theory Discussion Viva voce		
Scrub method, donning and doffing methods. To understand covid protocol.	K and S K and S	MK MK	Small group Lecture Demonstration	Theory Discussion Viva voce		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
MEDICALLY COMPROMISED PATIENTS.						
Identification of medically compromised patients.	K	MK	Large group Lecture Demonstration	Theory Discussion Viva voce		
Various investigations for systemic illness.	K	MK	Small group Lecture	Theory Discussion Viva voce		
Extraction protocol in medically compromised patients.	K	MK	Large group Lecture	Theory Discussion Viva voce		
Antibiotic prophylaxis in medically compromised patients.	K	MK	Large group Lecture	Theory Discussion Viva voce		

			Demonstration			
Emergency management in medically compromised patients.	K	MK	Large group Lecture Demonstration	Theory Practical on dummy		
Training in handling medical emergencies, CPR and basic life support.	K	MK	Small group Lecture Demo	Theory Practical on dummy		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
EXODONTIA						
Introduction, indications and contraindications of exodontia.	K	MK	Large group Lecture Demonstration	Theory Viva voce spotting		
Methods of extraction of mobile and firm teeth.	K	MK	Large group Lecture Demonstration	Theory Fabrication Evaluation		
Trans-alveolar method of extraction and suturing.			Small group Discussion Demo	Practical Viva voce		
Identification and use of instruments in exodontia.	K	MK	Small group Lecture Demonstration	Theory Fabrication Evaluation		
Complications in exodontia prevention and management.	K	MK	Large group Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
CLINICAL EXERCISES: LOCAL ANESTHETIC INJECTION TECHNIQUES.						
Neurology of facial pain.	K	MK	Large group Lecture Discussion	Theory Discussion Viva voce		
Definition and types of local anesthetics, indications, contraindications.	K	MK	Small group Lecture Discussion	Theory Discussion Viva voce		
Classification, ideal requirements of local anesthetic solutions.	K	MK	Large group Lecture Discussion	Theory Discussion Viva voce		
Local anesthetic injection techniques for maxilla and mandible on patients.	K and S	MK	Small group Lecture Discussion Demo	Practical Theory Viva voce		
IM and IV injection techniques.	K and S	MK	Small group Lecture Discussion Demo	Practical Learning activity on dummy		
Complications of local anesthetics.	K	MK	Large group Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
CLINICAL EXERCISES: WIRING TECHNIQUES ON MODELS.						
Instruments used in oral surgery for arch bar and wire fixation.	K	MK	Small group Lecture Demo	Theory Discussion Viva voce		
Management of dentoalveolar fractures with arch bar fixation, eyelets and intermaxillary fixation.	K and S	DK	Large group Lecture Demo	Discussion Viva voce		
Trans-osseous and intraosseous wiring techniques.	K and S	MK	Small group Lecture Demo	Theory Practical Learning activity on dummy		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
CLINICAL EXERCISES: SUTURING TECHNIQUES ON MODELS.						
Knowledge on various suturing techniques.	K	MK	Large group Lecture Demonstration	Discussion viva		
Various suturing methods on models.	K and S	MK	Small group Lecture Demonstration	Learning activity on dummy Practical		



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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

Course outcomes	Domain K/S/A/C	Must know/ Nice to know/ Desirable to know MK/NK/DK	Teaching- Learning Methods	Assessment Methods	Vertical integratio n	Horizonta l integratio n
Introduction to Dentistry						
Understand the aims and objectives	K	KH	lecture	Theory		
Describe Dentist act of India	K	K	lecture	Theory viva voce		
Functions of IDA & DCI	K	KH	lecture	Theory viva voce		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal integration
Public Health						
Understand Public Health	K	KH	Lecture	Theory		
Describe Changing concept of Health	K	KH	Lecture	Theory and vivavoce		
Describe concept of causation	K	KH	Lecture	Theory		
Explain changing concepts in Public Health	K	KH	Lecture	Theory		
Explain concept of prevention	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Dental Public Health						
Definition and tools of Dental Public Health	K	KH	Lecture	Theory		
Enumerate the duties of a Public Health Dentist	K	KH	Lecture	Theory		
Describe The Indian Association of Public Health Dentistry	K	K	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Water						
Describe Potable water and enumerate the sources of water	K	K	Lecture	Theory		
Enumerate the guidelines for drinking water quality	K	K	Lecture	Theory		
Explain the steps in Purification of water	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Waste Management						
Describe and explain the methods of waste disposal	K	KH	Lecture	Theory		
Describe and explain the methods of hospital waste management	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Behaviour and Social sciences						
Describe the relation between Health behaviour and life style	K	K	Lecture	Theory		
Describe the theories of behavioral change	K	K	Lecture	Theory		Pediatric dentistry
Describe the utilization of dental services	K	K	Lecture	Theory		
Describe the Psychodynamic and Behaviour learning theories	K	K	Lecture	Theory		Pediatric dentistry

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
General Epidemiology						
Define Epidemiology and enumerate the principles of epidemiology	K	KH	Lecture	Theory		
Describe the tools of measurement	K	KH	Lecture	Theory		
Describe in detail about the various Epidemiological methods	K	KH	Lecture	Theory		
Describe Association and Causation	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Epidemiology, Etiology and Prevention of Dental Caries						
Describe the theories of caries etiology	K	KH	Lecture	Theory		Conservative and Endodontics
Discuss in detail about prevention of Dental caries	K	KH	Lecture	Theory		Conservative and Endodontics
Explain the caries risk assessment	K	KH	Lecture	Theory		Conservative and Endodontics
Enumerate and discuss in detail about all the caries activity tests	K	KH	Lecture	Theory		Conservative and Endodontics
Discuss in detail about caries vaccine	K	KH	Lecture	Theory		Conservative and Endodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Epidemiology, Etiology and Prevention of Periodontal disease						
Different types of clasps and their uses						
Describe the Epidemiology and etiology of periodontal disease	K	KH	Lecture	Theory		Periodontics
Understand the classification of periodontal disease	K	KH	Lecture	Theory Viva voce		Periodontics
Explain in detail about the prevention of periodontal disease	K	KH	Lecture	Theory Viva voce		Periodontics



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal integration
Epidemiology, Etiology and Prevention of Oral cancer						
Understand the Epidemiology, etiology and risk factors of Oral cancer	K	KH	Lecture	Theory		Oral pathology
Describe the TNM system of tumor staging	K	KH	Lecture	Theory		Oral pathology
Explain the prevention and control of oral cancer	K	KH	Lecture	Theory		Oral pathology

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Epidemiology, Etiology and Prevention of Malocclusion						
Importance of case history and clinical examination in orthodontics						
Describe the epidemiology and etiology of Malocclusion	K	KH	Lecture	Theory		Orthodontics
Classification of malocclusion	K	KH	Lecture Demonstration	Theory		Orthodontics
Explain the prevention of malocclusion	K	KH	Lecture	Theory		Orthodontics



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Health Education and Promotion						
Define Health Education	K	KH	Lecture	Theory Viva voce		
Describe the principles of Health education	K	KH	Lecture	Theory Viva voce		
Describe the models of Health education	K	KH	Lecture	Theory Viva voce		
Describe Health communication	K	KH	Lecture	Theory Viva voce		
Enumerate and describe the Aids used in Health education	K	KH	Lecture	Theory Viva voce		
Enumerate and describe the methods of Health education	K	KH	Lecture	Theory Viva voce		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Nutrition and Oral Health						
Classification of foods	K	K	Lecture	Theory		
Explain Balanced diet	K	KH	Lecture	Theory Viva voce		
Explain the effect of nutrition on oral tissues	K	KH	Lecture	Theory Viva voce		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
School Oral Health Program						
Define School Oral Health Program	K	K	Lecture	Theory		
Enumerate and explain the objectives and ideal requirements of School Oral Health Program	K	K	Lecture	Theory		
Explain in detail about various School Oral Health Program	K	KH	Lecture	Theory		
Explain the Incremental care and comprehensive care	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Fluorides						
Describe the evolution of fluorides and enumerate the sources of fluoride	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Describe the metabolism and mechanism of action of fluorides	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Describe the estimation of fluoride concentration	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Enumerate and describe in detail about Fluoride delivery methods	K & S	KH	Lecture	Theory Viva Voce		Pediatric and preventive dentistry Conservative and Endodontics
Explain Fluoride toxicity	K	KH	Lecture	Theory Viva voce		Pediatric and preventive dentistry Conservative and Endodontics



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Pit and fissure sealants						
Describe the morphology of pits and fissures	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Enumerate the types of sealants	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Explain in detail about the procedure of sealant application	K & S	KH	Lecture Demonstration	Theory Viva Voce		Pediatric and preventive dentistry Conservative and Endodontics
Explain the factors affecting sealant retention	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics
Explain Preventive Resin Restoration	K	K	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Atraumatic Restorative Treatment						
Define ART and Describe the Principles of ART	K	KH	Lecture	Theory Viva voce		Pediatric and preventive dentistry Conservative and Endodontics
Describe the advantages, disadvantages, Indications and contraindications of ART	K	KH	Lecture	Theory Viva voce		Pediatric and preventive dentistry Conservative and Endodontics
Explain the procedure of ART	K & S	KH	Lecture Demonstration	Theory Viva voce		Pediatric and preventive dentistry Conservative and Endodontics
Discuss about failed or defective restoration	K	KH	Lecture	Theory		Pediatric and preventive dentistry Conservative and Endodontics



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Survey Procedures in Dentistry						
Define Survey and enumerate the types of survey	K	KH	Lecture	Theory		
Describe the methods of data collection	K	K	Lecture	Theory		
Discuss in detail about the steps in surveying	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Planning and Evaluation						
Define Planning and describe the types and uses of planning	K	KH	Lecture	Theory		
Describe the steps in Planning	K	KH	Lecture	Theory		
Discuss in detail about Evaluation and its steps	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Indices in Dental epidemiology						
Define Dental Indices	K	KH	Lecture	Theory Viva voce		
Describe the criteria, uses and classification of Indices	K	KH	Lecture	Theory Viva Voce		
Discuss in detail about various Dental Indices	K & S	KH	Lecture Demonstration	Theory Practical evaluation		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Health care delivery system						
Describe the levels of Health care in India	K	KH	Lecture	Theory Viva voce		
Describe the health care administration in India	K	KH	Lecture	Theory Viva Voce		
Discuss in detail about the National oral health policy	K	K	Lecture	Theory		
Discuss about the health agencies around the world	K	K	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Dental Manpower						
Define Dental Auxiliary	K	KH	Lecture	Theory Viva voce		
Classify Dental Auxiliary and discuss in detail about each	K	KH	Lecture	Theory Viva Voce		
Discuss in detail about Dental manpower in India	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Finance in dental Care						
Explain the mechanism of payment for dental care	K	KH	Lecture	Theory Viva voce		
Discuss in detail about financing dental health services in India	K	KH	Lecture	Theory Viva Voce		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Research Methodology						
Define and discuss about oral health research	K	K	Lecture	Theory		
Classify and discuss detail about Sampling and sample designs	K	KH	Lecture	Theory Viva Voce		
Describe in detail about data	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Biostatistics						
Describe the measures of central tendency	K	KH	Lecture	Theory		
Describe the measures of dispersion	K	KH	Lecture	Theory		
Describe Normal curve	K	KH	Lecture	Theory		
Discuss about Test of significance	K	K	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Occupational Hazards in dentistry						
Describe the biological, chemical. Physical and psychological hazards in dentistry	K	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Infection control in Dentistry						
Describe the category of task in relation to risk	K	KH	Lecture	Theory		
Discuss in detail about the personal barrier techniques for infection control	K	KH	Lecture	Theory		
Describe in detail about sterilization and disinfection of Instruments and cleaning and disinfection of dental unit and environmental surfaces	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Establishing and maintain a Dental office						
Describe in detail about practice management and maintain a dental office setting	K & S & A	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Mobile Dental Clinics						
Describe the goals, objectives, specifications, advantages and disadvantages of a Mobile dental clinic	K	KH	Lecture	Theory		

Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Ethics in Medicine and Dentistry						
Define Ethics	K	KH	Lecture	Theory		
Explain ethical principles	K & A	KH	Lecture	Theory		



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Objective	Domain	Level of Competency	Teaching learning methods	Assessment methods	Vertical Integration	Horizontal Integration
Medical Jurisprudence						
Describe about patient consent	K & A	K	Lecture	Theory		
Explain Consumer protection act	K & A	KH	Lecture	Theory		
Discuss in detail about the dos and don'ts for health professionals	K & A	KH	Lecture	Theory		



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DEPARTMENT OF ORAL PATHOLOGY

Topic: Developmental Disturbances of Oral & Para-oral Structures

Course Outcomes	Domain K/S/A/C	Level K/KH/SH/P	Must know /Nice to know/ Desirable To know	Assessment methods	Vertical Integration(VI)	Horizontal Integration (HI)
Various types of oral and Dental anomalies in oral cavity	K	K	MK	Written Exam Viva		
Describe and identify the anomaly	K/S	K	NK	Viva Practical Exam		HI
Describe clinical considerations of the dental anomalies	K/S	KH	NK	Written Exam Viva	VI	



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Topic: Benign and malignant tumors of the oral cavity

Competency-the student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Must know/ Nice to know/ Desirable to know	Assessment methods	Vertical Integration	Horizontal Integration
Classification of Benign tumors of Epithelial and connective tissue of the oral cavity	K	K	MK	Written Exam Viva	VI	HI
Types of malignant Tumors of epithelial and connective tissue of the oral cavity	K/S	KK	NK	Written Exam Viva		HI
Histology of Benign and malignant tumors of the oral cavity	K	KH	DK	Viva Practical Exam Written Exam		HI



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Topic: Tumors of Salivary Gland

Competency- the student Should be Able to	Dom ain K/S/ A/C	Level K/KH/SH/P	Must know/ Nice To know/ Desirable To know	Assessment Methods	Vertical Integration	Horizontal Integration
Classification Of Benign Tumors of the Salivary gland	K	K	MK	Written Exam Viva	VI	
types of malignant tumors tumors of the Salivary gland	K/S	K	NK	Written Exam Viva		
Histology and treatment of the salivary gland	K	KH	DK	Written Exam Viva	VI	HI



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Topic: Dental Caries

Competency- the student Should be Able to	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable To know	Assessment methods	Vertical Integration	Horizontal Integration
Classification of Dental caries	K	K	MK	Written Exam Viva	VI	HI
Theories of Dental Caries	k	K/KH	MK	Written Exam Viva	VI	
Describe zones of Dental caries	K/S/A	KK	NK	Written Exam Viva	VI	
Describe clinical considerations of the dental caries	K	KH	MK	Written Exam Viva	VI	



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Topic: Oral Infections of bacterial, viral and fungal origin

Competency- the student should be able to know	Domain K/S/ A/C	Level K/KH/SH/P	Must know/ Nice To know/ Desirable To know	Assessment methods	Vertical Integration (VI)	Horizontal Integration (HI)
Various types of oral infections of bacterial, viral and fungal origin	K	K	MK	Written Exam Viva		
Describe lab diagnosis of bacterial ,viral and fungal origin	K	K	NK	Written Exam Viva	VI	HI
Treatment of bacterial, viral and fungal lesions	K	K	MK	Written Exam Viva	VI	



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Topic: Diseases of Pulp and Periodontium

Competency- the student should be able to know	Domain K/S/A/ C	Level K/KH/SH/ P	Must know/ Nice To know/ Desirable To know	Assessment methods	Vertical Integration (VI)	Horizontal Integration (HI)
Various Lesions of Pulp and periodontium	K/S	K	MK	Written Exam Viva	VI	
Describe Sequels of The lesions of Pulp and periodontium	K	K/SH	NK	Written Exam Viva	VI	

Treatment of pulp periodontium lesions	K	K	MK	Written Exam Viva	VI	
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Topic: physical and chemical injuries

Competency-the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice To know/ Desirable To know	Assessment methods	Vertical Integration (VI)	Horizontal Integration (HI)
Various hazards related to Physical and chemical injuries of the oral cavity	K/S	K	MK	Written Exam Viva	VI	
Able to differentiate and identify hazards related to Physical and chemical injuries of the oral cavity	K	K/S	NK	Viva	VI	



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Topic: Blood/ metabolic/immunologic disorders

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice To know/ Desirable To know	Assessment methods	Vertical Integration(VI)	Horizontal Integration (HI)
Define& explain types of Blood Dyscrasias	K/S	K	MK	Written Exam Viva	VI	
Lab diagnosis of various types of Blood Dyscrasias	K	K/SH	NK	Written Exam Viva	VI	
The differential diagnosis of Metabolic/ immunologic disorders	K	K	Must know	Written Exam Viva	VI	HI



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Topic: Diseases of Bones and Joints

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice To know/ Desirable To know	Assessment methods	Vertical Integration(VI)	Horizontal Integration (HI)
Classification of diseases of bone	K/S	K	MK	Written Exam Viva	VI	
Describe in detail about Fibrous Dysplasia	K	K/S	MK	Written Exam Viva		HI
Describe in Detail about Paget's Disease	K	K/A	Must know	Written Exam Viva	HI	



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TOPIC-Enamel

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Assessment methods
Describe structure of Enamel	K/S	K	MK	Written Exam Viva
Life cycle of ameloblast	K	K/SH	MK	Written Exam Viva
Describe in detail amelogenesis	K	K	Must know	Written Exam Viva
Clinical Considerations	K/S	K/KH	DK	Written Exam Viva

Topic: Pulp

Competency- the student should be able to	Domain K/S/A/C	Level K/KH/SH/P	Must know/Nice to know/ Desirable to know	Assessment methods
Describe functions of Pulp	K/S	K	MK	Written Exam Viva
Describe in detail about age changes in pulp	K	K/S	MK	Written Exam Viva
Describe in detail about cellular elements of Pulp	K	K	Must know	Written Exam Viva



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Topic: Bone

Competency- the student should be able to	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/Desirable to know	Assessment methods
Classification of types of bone	K/S	K	MK	Written Exam Viva
Describe in detail about histology of bone	K	K/S	MK	Written Exam Viva Practical exam
Describe in detail about development of bone	K	K	Must know	Written Exam Viva

TOPIC-Periodontalligament

Competency- the student should be able to	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Assessment methods
Principle fibers of PDL	K/S	K	MK	Written Exam Viva
Cells of PDL	K	K/S	MK	Viva



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TOPIC-Salivary Gland

Competency-the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/Nice to know/Desirable to know	Assessment methods	Vertical Integration	Horizontal Integration
Types of salivary Gland	K/S	K	MK	Written Exam Vive		
Describe in detail histology of salivary gland	K/S	K/S	MK	Written Exam Practical Exam Vive		
Histogenesis of salivary gland	K	K	Must know	Written Exam Vive		HI
Applied aspects	K	KH	Dk	Written Exam Vive	VI	

TOPIC-Oral Mucous Membrane

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Assessment methods
Definition of Oral Mucous Membrane	K/S	K	MK	Written Exam Vive
Classification of Oral Mucous Membrane	K/S	K/S	MK	Written Exam Vive
Histology of Gingiva, hard palate and lining mucosa	K	K/A	Must know	Written Exam Vive Practical exam
Applied aspects	K	KH	MK	Written Exam Vive



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TOPIC-Eruption and Shedding

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know /Nice to know/ Desirable to know	Assessment methods
Definition of Eruption and Shedding	K/S	K	MK	Written Exam VIVA
Physiology of Eruption and Shedding	K/S	K/S	MK	Written Exam VIVA
Applied aspects	K	KH	Dk	Written Exam VIVA



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TOPIC-DentalAnatomy

Competency- the student should be able to know	Domain K/S/A/C	Level K/KH/SH/P	Must know /Nice to know/ Desirable to know	Assessment methods
Definition of ridge, cusp, fossæ	K/S	K/H	MK	Written Exam Viva
Describe Line angles, point angles	K/S	K/S	MK	Viva
Tooth morphology of Deciduous and permanent teeth	K/S	KH	MK	Written Exam Viva
Teeth numbering systems	K	KH	MK	Written Exam Viva



Department of Prosthodontics

Sl. No	Competency The Student Should Be Able To	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Complete Denture								
Topic 1: Applied Anatomy and Physiology							No of Competencies: 3	
1.	Describe Applied Anatomy and Physiology related to stomato-gnathic system	K	K/S	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
2.	Explain Biomechanics of the edentulous state	K	K/S	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
3.	Describe Pathophysiology and clinical significance of Residual ridge resorption.	K/S	SH	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
Topic 2: communicating with Patient							No of Competencies: 2	
1.	Understand the patient's mental attitude and expectations	K/C	P	MK	DOAP	DOAP OSCE	Pre-clinical And Clinical prosthodontics	-
2.	Instruct the patient and/or relatives	A/C	P	MK	DOAP	DOAP OSCE	-	-
Topic3: Diagnosis and Treatment Planning							No of Competencies: 5	
1.	Record Case history, gather relevant information related to systemic status, nutritional status, etc.	K/S	P	MK	DOAP	DOAP OSCE	Pre-clinical And Clinical Prosthodontics	
2.	Perform Clinical examination -Intra-oral and extra-oral	K/S	P	MK	DOAP	DOAP OSCE	Pre-clinical And Clinical Prosthodontics	
3.	Perform Diagnostic procedures: Investigations, referral to physician if required, diagnostic mounting, etc.	K/S	P	MK	DOAP	DOPS Skill Assessment	Pre-clinical And Clinical Prosthodontics	
4.	Demonstrate Data interpretation and differential diagnosis	K/S	P	MK	DOAP	OSCE Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
	Select and justify most suitable treatment option taking in account patient's expectations and condition	K/S/A	P	MK	PBL	OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
Topic 4 : Optimizing denture foundation and ridge relation							No of Competencies: 1	
1.	Describe Pre-prosthetic mouth preparations	K	KH	NK	DOPS	OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	
Topic 5 : Optimizing denture foundation and ridge relation							No of Competencies: 2	



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1.	Explain Different types of articulators and their uses	K/P	K/P	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical Prosthodontics and clinical prosthodontics	-	
2.	Explain factors affecting Selection of articulator for a specific case	K/P	K/P	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
Topic 6 : Optimizing denture foundation and ridge relation							No of Competencies: 3		
1.	Explain various factors responsible for retention in CD	K	K	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
2.	Explain various factors responsible for support in CD	K	K	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
3.	Explain various factors responsible for stability in CD	K	K	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
Topic 7: Impressions in CD							No of Competencies: 6		
1.	Biologic considerations for maxillary and mandibular impression including applied anatomy of muscles	K	KH	MK	DOAP	Vivavoce OSCE, Written examination	Pre-clinical And Clinical Prosthodontics	-	

	of facial expressions and mastication, anatomical landmarks and their interpretation.					Vivavoce			
2.	Explain Objectives of impression making	K	K/KH	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
3.	Describe Materials for impression making	K	K/KH	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Dental Materials Clinical Prosthodontics	-	
4.	Describe Impression theories and techniques	K	K/KH	MK	DOAP classroom	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
5.	Perform Procedure for impression making for maxillary and mandibular arch - PI & FI	K/P	K/P	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-	
6.	Perform Laboratory procedures involved with impression making (Beading & Boxing and cast preparation).	K/P	K/P	MK	DOAP	Vivavoce OSCE, Written examination Vivavoce	Pre-clinical prosthodontics	-	
Topic 8: Jaw Relations							No of Competencies: 6-		
1.	Record bases and occlusion	K/P	K/P	MK	DOAP	Viva voce	Pre-clinical	-	



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	rims a) Explain materials & techniques. b) Explain useful guidelines and ideal parameters.						prosthodontics	
2.	Fabricate record bases and occlusal rims.	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical prosthodontics and Clinical prosthodontics	-
3.	Describe Biological consideration in jaw relation & jaw movements – Cranio-mandibular relations. a) Mandibular movements. b) Maxilla -mandibular relation including vertical and horizontal jaw relations. c) Concept of occlusion	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
4.	Explain how to relate the patient to the articulator. a) Face bow types & uses b) Face bow transfer procedure	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
5.	Perform recording maxilla mandibular relation. a) Vertical relations. b) Centric relation records.	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical prosthodontics	-
6.	Describe recording maxilla	K/P	K/P	MK	DOAP	Viva voce	Pre-clinical	-

	Mandibular relation. a) Eccentric relation records. b) Lateral relation records.					OSCE, Written examination Vivavoce	And Clinical Prosthodontics	
Topic 9: Teeth arrangement and occlusion						No of Competencies: 3		
1.	Describe Tooth selection and arrangement. a) Anterior teeth. b) Posterior teeth. c) Esthetic and functional harmony	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
2.	Perform teeth selection and arrangement for completely edentulous patient	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	
3.	Explain Relating inclination of teeth to concept of occlusion a) Metro centric concept. Balanced occlusal concept.	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
Topic 10: Trial dentures						No of Competencies: 2		
1.	Describe procedural steps and importance of trial denture insertion	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-
2.	Perform trial insertion of complete denture	K/P	K/P	MK	DOAP	Viva voce OSCE, Written	Pre-clinical And Clinical	-



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						examination Viva voce	Prosthodontics	
Topic 11: Laboratory procedures						No of Competencies: 10		
	Perform following procedures: a) Wax contouring. b) Investing of dentures. c) Preparing of mold. d) Preparing & packing acrylic resin. e) Processing of dentures. f) Recovery of dentures. g) Lab remount procedures. h) Recovering the complete denture from the cast. i) Finishing and polishing the complete denture. Plaster cast for clinical denture remount procedure.	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	
Topic 12: Denture insertion.						No of Competencies: 4		
1.	Perform following procedures a) Insertion procedures. b) Clinical errors. c) Correcting occlusal disharmony. d) Selective grinding Procedures.	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	-
Topic 13: Treating problems with associated denture use.						No of Competencies: 1		
1.	Perform denture follow up visits and troubleshooting	K/P	K/P	MK	DOAP	Viva voce OSCE, Written	Pre-clinical And Clinical	-

						examination Viva voce	Prosthodontics	
Topic 14: Treating abused tissues.						No of Competencies: 1		
1.	Describe the treatment of abused denture foundation tissues	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	-
Topic 15: Relining and rebasing of dentures.						No of Competencies: 1		
1.	Explain materials, techniques, indications and contraindications of denture relining and rebasing	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	-
Topic 16: Immediate complete dentures construction procedure.						No of Competencies: 1		
1.	Describe indications, contraindications, types, advantages, disadvantages, and techniques of fabrication of immediate dentures	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	-
Topic 17: The single complete denture.						No of Competencies: 1		
1.	Describe indications, contraindications, advantages, disadvantages, and techniques of fabrication of immediate dentures	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Viva voce	Pre-clinical And Clinical Prosthodontics	-



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Topic 18: Overdentures denture						No of Competencies: 1		
1.	Describe indications, contraindications, advantages, disadvantages, and techniques of fabrication of overdentures	K/P	K/P	MK	DOAP	Viva voce OSCE, Written examination Vivavoce	Pre-clinical And Clinical Prosthodontics	-

Sl. No	Competency The Student Should Be Able To	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Dental Materials								
Topic 1: Structure of Matter and Principles Of adhesion.						No of Competencies: 1		
1.	Describe crystalline and non-crystalline structure, Various Interatomic bonds, and adhesion	K	K	MK	Large group (Lecture)	Written exam	Dental material	
Topic 2: Important Physical Properties Applicable To Dental materials								
No of Competencies: 1								
1.	Define the following properties and describe its importance with relation to Dental Materials (Biological, Mechanical, Chemical, Thermal, Rheological, Color)	K	K/KH	MK	Large group (Lecture)	Written exam	Dental material	
Topic 3: Biological Considerations in Use Of Dental materials								
No Of Competencies: 2								
1.	Define Biocompatibility and discuss various hazards resulting from Dental materials	K	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	



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2.	Describe toxicity and its levels of evaluation related to Dental Materials	K	K	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
Topic 4: Gypsum & Gypsum products.					No Of Competencies: 06				
1.	Define Gypsum and classify its different products	K	K	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
2.	Describe its manufacturing	K	K	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
3.	Describe in detail the various theories offsetting and factors affecting setting of Gypsum Products	K	K	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
4.	Discuss various Properties of Dental Plaster and Dental Stone	K	K	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
5.	Discuss the disinfectants and the methods of disinfecting gypsum products	K	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
6.	Perform under assistance the manipulation of dental plaster and dental stone	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
7.	Enlist the advantages, disadvantages, uses and differences between Dental Plaster and Dental stone	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
Topic 5 : Impression Materials Used in dentistry					No of Competencies: 08				
1.	Define impression and discuss the purpose of making it	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
2.	Classify Impression Materials and discuss	K/P	K/KH	MK	Large group	Written exam Viva voce	Dental		

	in details the ideal requirements of it				(Lecture)		material	
3.	Discuss in detail the composition and role of ingredients of all Elastic and Inelastic Impression materials used in dentistry	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
4.	Discuss the chemistry of setting and factors affecting setting of all Elastic and Inelastic Impression materials used in dentistry	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
5.	Discuss the Working time, setting time, flow, accuracy, strength, flexibility, tear strength, dimensional stability, compatibility with cast & die materials incl., electroplating biological properties: tissue reaction, Shelf life & storage of material, Infection control – disinfection of all impression materials used in dentistry	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
6.	Discuss the manipulation with special emphasis on type of impression trays required, Adhesion to tray, instruments & equipment's required.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	



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7.	Discuss the recent advances in Impression materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
8.	Discuss the advantages, disadvantages, uses of all the impression materials used in dentistry	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
9.	Perform under supervision the manipulation of Zinc Oxide Eugenol impression pastes and Alginate Impression material	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
Topic 6 : Synthetic Resins Used In dentistry					No of Competencies: 12				
1.	Define denture base and classify denture base materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	-	
2.	Discuss the ideal requirements of Denture base materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	-	
3.	Classify denture base resins and discuss the ideal requirements of it	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	-	
4.	Define Polymerization. Discuss in detail the types of polymerizations, Addition and Condensation Polymerization, inhibition of polymerization	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
5.	Discuss Crosslinking and copolymerization	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
6.	Discuss the biological properties &	K/P	K/KH	MK	Large group	Written exam Viva voce	Dental		

	allergic reactions, Physical properties, Porosities, Polymerization shrinkage, Crazeing, Solubility, Thermal properties, aesthetic properties of denture base resins				(Lecture)		material	
7.	Discuss the modes of polymerization: Heat activated, chemically activated, Light activated, Mode of supply, application, Composition, polymerization reaction of each.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
8.	Discuss the technical considerations: Methods of manipulation for each type of resin.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
9.	Discuss the miscellaneous resins & techniques: Repair resins, Relining and rebasing	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
10.	Define and discuss the short term and long-term soft-liners, temporary crown and bridge resins, Resin impression trays, Tray materials and Resin teeth, denture cleansers.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
11.	Discuss in detail the infection control of denture base resins	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	



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12.	Classify and discuss the Maxillofacial Prosthesis materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
Topic 11: Dental Casting Alloys					No of Competencies: 05				
1.	Define and classify dental casting alloys. Discuss in detail its ideal requirements	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
2.	Discuss the Composition, role of constituents and application of each alloy both noble and base metal including Titanium alloys	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
3.	Discuss in detail the properties of alloys: Melting range, mechanical properties, hardness, elongation, modulus of elasticity, tarnish, and corrosion.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
4.	Discuss in detail the casting procedure and casting defects	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
5.	Discuss in detail the hardening and softening heat treatments	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
Topic 12: Dental Waxes					No of Competencies: 4				
1.	Classify dental waxes	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
2.	Discuss ideal requirements, composition, role of ingredients of Inlay	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		

	casting wax							
3.	Discuss the Properties: melting range, thermal expansion, mechanical properties, flow & residual stresses, ductility of Inlay casting wax	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
4.	Discuss the composition, role of ingredients and uses of Modelling wax, sticky wax, Beading & Boxing wax, Spacer wax, Bite registration wax, impression wax	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	

Topic 13: Dental Casting Investments					No of Competencies: 03				
1.	Define Investment. Classify and Discuss the ideal requirements of Dental casting investment materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	-	
2.	Discuss in detail the composition, role of ingredients Ans setting reaction of Gypsum bonded, Phosphate bonded and silica bonded investment materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		
3.	Discuss in detail the properties with special emphasis on Normal, thermal and hygroscopic setting expansion	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material		



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Topic 14: Dental Ceramics				No of Competencies: 1				
1.	Define and classify Dental Ceramics	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	-
2. DM	Discuss in detail the composition, role of ingredients of Dental ceramics	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
3. DM 1 4	Discuss in details methods of strengthening dental ceramics	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
4. DM 1 4 4	Discuss in detail the fabrication of Ceramic with special emphasis on coping, condensation, firing and furnaces, glazing and finishing	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
5. DM 1 4 5	Discuss the properties of dental ceramics-Strength and factors affecting, modulus of elasticity, surface hardness, wear resistance, thermal properties, specific gravity, chemical stability, esthetic properties, biocompatibility	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
6. DM 1 4	Discuss the Recent advances-all porcelain restorations, Manganese core, injection molded, castable ceramics, glass infiltrated alumina core	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	

5	ceramic (In cream), ceramic veneers, inlays and on lays, and CAD - CAM ceramic.							
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Topic 17: Abrasion & Polishing Agents				No of Competencies: 5				
1.	Define the term abrasion and polishing. Explain the need of abrasion and polishing.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
2.	Discuss the different Types of abrasives, polishing agents and binders used for it with special emphasis on grading of abrasives.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
3.	Explain the factors affecting the rate of abrasion. Write down the ideal requirements of abrasive agents.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
4.	Write down the different materials and procedure used for abrasion and polishing agents.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
5.	What is Electrolytic polishing and burnishing.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	

Topic 18: Dental Implants				No of Competencies: 02				
1.	What is dental implant? Explain the evolution of dental implant.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
2.	Write down the different types of dental implants. Discuss the different	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	



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	materials used for dental implants.							
Topic 19: Mechanics of Cutting					No of Competencies:1			
1.	What is dental bur and points? Explain the mechanism of tooth cutting.	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
Topic 20: Die and Die Materials					No of Competencies:02			
1.	Define die and classify die materials and discuss the ideal requirements of die materials	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	
2.	Discuss the electroforming of Die	K/P	K/KH	MK	Large group (Lecture)	Written exam Viva voce	Dental material	

Course Outcomes

Sl. No	Competency The Student Should Be Able To	Domain K/S/ A/ C	Level K/KH/ SH/P	Must know/ Nice to know/ Desirable to know	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Removable Partial Prosthodontics								
TOPIC 1: Introduction and Classifications in Removable Partial Prosthodontics.								
No Of Competencies: 04								
1.	Describe the partially edentulous state	/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
2.	Describe the need for classification and classify partially edentulous arches using different systems	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
3.	Describe indications, Contraindications, advantages, and disadvantages of removable partial dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
4.	Describe types of removable partial dentures	K/S	K/P	MK	DOAP	Viva voce Written	Pre-clinical	



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	and parts of RPDs					Exam OSCE VIVA VOCE	and Clinical Prosthodontics	
5.	Describe the indications, advantages and disadvantages and types of Interim Removable Partial Dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
TOPIC 2: Parts Of Removable Partial Denture. Number Of Competencies:01								
1.	Describe the types, indications, advantages, and disadvantages of components of CPDs (Major connectors, minor connectors, Rest and rest seats, Direct retainers, Indirect retainers, Tooth Replacement.)	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
TOPIC 3: Diagnosis and Treatment Planning In Removable Partial Prosthodontics. Number Of Competencies: 01								
1.	Examine, Diagnose & Evaluate diagnostic data and Plan Treatment	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
TOPIC 4: Removable Partial Denture Design. Number Of Competencies: 03								
1.	Describe and apply the principles and concepts of Removable partial denture design	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
2.	Define, classify surveying, surveyors and describe factors affecting path of insertion	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
3.	Describe and perform the procedure of surveying	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
TOPIC 5: Mouth Preparations In Removable Partial Denture Fabrication. Number Of Competencies: 2								
1.	Describe the pre-prosthetic corrections to improve oral conditions RPD	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
2.	Describe the prosthetic corrections to improve planning and fabrication of RPD	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
TOPIC 6: Clinical Steps In Removable Partial Denture Fabrication. Number Of Competencies:								
1.	Describe the types of impressions and Impression materials and procedures for removable partial dentures.	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
2.	Describe the techniques of jaw relation and esthetic try-in for	K/S	K/P	MK	DOAP	Viva voce Written Exam	Pre-clinical and Clinical Prosthodontics	



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	Anterior replacementteeth.					OSCE VIVA VOCE		
3.	Describe the Laboratory procedures including materials for framework construction.	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
4.	Describe the fitting and trying in of framework	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
5.	Describe occlusion in Removable Partial dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
6.	Describe the insertion of removable partial denture	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
7.	Describe the problems encountered after insertion of Removable Partial Dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	

TOPIC 7: Immediate Removable Partial Dentures.

Number Of Competencies: 01

1.	Describe the indications, contraindications, and steps in fabrication of Immediate Removable Partial Dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
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Topic 8: Removable Partial Dentures Opposing Complete Dentures.

Number Of Competencies: 01

1.	Describe the treatment plan considerations and steps in fabrication of Removable Partial Dentures opposing Complete dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
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Topic 9: Repairs in Removable Partial Dentures.

Number Of Competencies: 01

1.	Describe the indications, techniques of corrections (relining, rebasing, repairsand reinforcements) of Removable Partial Dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
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Topic 10: Advances In Removable Partial Dentures.

Number Of Competencies: 01

1.	Describe the advantages and digital workflow and materials in CAD CAM Removable Partial dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
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2.	Describe the advantages and laboratory procedures in Flexible Removable Partial dentures	K/S	K/P	MK	DOAP	Viva voce Written Exam OSCE VIVA VOCE	Pre-clinical and Clinical Prosthodontics	
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Sl. No	Competency The Student Should Be Able To	Domain K/S/A/C	Level K/KH/SH/P	Must know/ Nice to know/ Desirable to know	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
FIXED PARTIAL PROSTHODONTICS								
Topic 1: Introduction To Fixed Partial Dentures.								
Number Of Competencies: 02								
1.	Define Fixed Partial Dentures	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Classify FPDs	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 2: Component Of FPD								
Number Of Competencies: 03								
1.	Define, classify, identify, and describedifferent Retainers	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Define, classify, identify, and describedifferent Pontiacs	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
3.	Define, classify, identify, and describedifferent Connectors	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 3: Diagnosis and Treatment Planning								
Number of Competencies: 10								
1.	Take a case History	K	KH	MK	DOPS	Written	-	-prosthodontics



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						examination Viva-voce		and crown & bridge
2.	Perform a Clinical Examination	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
3.	Make Diagnostic casts and analyses them	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
4.	Describe the importance of a Face bow transfer	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
5.	Describe the significance of choice of Articulators	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
6.	Decide upon type of prosthesis	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
7.	Evaluate and select Abutment	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
8.	Describe the Biomechanical design considerations in FPD design	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
9.	Selection of material (Metal, Metal-Ceramic, All Ceramic) for FPD	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
10.	Describe and perform the Mouth	K	KH	MK	DOPS	Written examination	-	-prosthodontics and crown &

	Preparations needed to be done prior to FPD planning					Viva-voce		bridge
Topic 4: Occlusion in Fixed Partial Dentures								
Number Of Competencies: 1								
1.	Describe the Fundamentals of occlusion necessary for FPD planning	K	KH	MK	DOPS	Written examination Viva-voce		prosthodontics and crown & bridge
Topic 5: Principles Of Tooth Preparation								
Number Of Competencies: 5								
1.	Describe the Principles of tooth preparation	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Describe and perform the Preparation of full veneer crowns – detail	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
3.	Describe and perform the Preparation for partial veneer crowns	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge



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1.	Describe and perform the Treatment for extensively damaged teeth	K	KH	MK	DOPS	Written examination Viva-voce		prosthodontics and crown & bridge
2.	Describe and perform the Treatment for periodontally weakened teeth	K	KH	MK	DOPS	Written examination Viva-voce		prosthodontics and crown & bridge
Topic 6: Fluid Control and Soft Tissue Management								
Number Of Competencies: 3								
1.	Describe the importance of finish line exposure	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Describe the Techniques for soft tissue management	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
3.	Describe the Various Recent Advances in soft tissue management	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
Topic 7: Impression Making in Fixed Partial Dentures								
Number Of Competencies: 2								
1.	Describe the Various techniques of impression making with a critical evaluation of their merits and demerits	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Describe the Various Recent Advances in FPD impressions	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
Topic 8: Provisional Restorations								
Number Of Competencies: 2								
1.	Define and describe the rationale of Provisional Restorations	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Define and describe the techniques of fabricating Provisional Restorations	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 9: Laboratory Procedures for Fixed Partial Denture								
Number Of Competencies: 4								
1.	Describe the rationale and procedure to make Working casts and dies	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
2.	Describe the procedure to make Wax Patterns	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
3.	Describe the procedure to Investand cast patterns	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge



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4.	Ceramic builds up	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
Topic 10: Unconventional Fixed Partial Dentures								
Number Of Competencies: 2								
1.	Describe the indications, contraindications, types, and techniques of Resin bonded fixed partial dentures	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
2.	Describe the indications, contraindications, types and techniques of Fiber reinforced fixed partial dentures	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 11: Esthetic Considerations In FPD								
Number Of Competencies: 2								
1.	Describe the Aesthetics considerations in smile designing	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
2.	Describe the aids and method of Shade selection	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 12: Luting Considerations In Fpd								
Number Of Competencies: 2								



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1.	Describe the rationale and selection of luting agent in FPD	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
2.	Describe the technique of luting in FPD	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge
Topic 13: Maintenance and Failures In FPD								
Number Of Competencies: 2								
1.	Describe and give instructions after Luting FPD	K	KH	MK	DOPS	Written examination Viva-voce	-	-prosthodontics and crown & bridge
2.	Describe the Failures in FPD and their management	K	KH	MK	DOPS	Written examination Viva-voce	-	prosthodontics and crown & bridge

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