

Subject Code: 1DS1010307	Subject Title: Pediatric Dentistry
Pre-requisite Subject	- NONE -

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)						
Lecture	Tutorial	Practical	Credit	Theory(T)				Practical (P)		
				University Assessment	Continuous Assessment	Viva Voce	Total Marks	University Assessment	Continuous Assessment	Total Marks
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1	--	11+2*	--	--	--	--	--			

Note*: Preclinical

Third Year Record Book

- Cavity preparation** - principles , modifications for primary teeth , neatly labelled diagrams (all the class of cavities)
- Differences between primary and permanent teeth**
- Appliances :**
 - Removable habit breaking appliance with palatal crib (thumb sucking)(definition, etiology, classification, indication, fabrication of appliance)
 - Oral screen (definition, etiology, classification, indication, fabrication of appliance)
 - Removable space maintainer- mixed dentition cast- remove 1st primary molar bilaterally (definition, indication, fabrication of appliance)

	Lecture topics	Hours
1	Introduction and scope of pediatric dentistry	1
2	Restorative materials - Glass ionomer cement - Calcium hydroxide - Composites	3
3	Operative dentistry - Principles of cavity preparation - Modification of cavity preparation in primary teeth - Isolation of the operating field - Matrices and wedges	3
4	Preventive procedures - Pit and fissure sealants - Preventive resin restoration	2
5	Atraumatic restorative treatment	1
6	Growth and development - Introduction - Theories of growth and development - Prenatal growth of dento-facial structures	2

	• Postnatal growth of dento-facial structures	
7	Developmental anomalies of teeth	2
8	Dental chronology	1
9	Case history	1
10	Differences between primary and permanent dentition	1
11	Development of occlusion	1
12	Local anesthesia in children	1
13	Dental caries	2

Third year pre-clinical work quota

1. Oral screen

1. Adaption of wax spacer on the facial and buccal surface of the maxillary and mandibular in occlusion
2. Adaptation of s.s wire (19 gauge) on the wax spacer
3. Fabrication of oral screen
4. Finishing and polishing of oral screen

2. Bi-lateral removable functional space maintainer

1. Construction of c – clasp on 53, 63, 16 & 26 with 21 gauge s.s wire
2. Fabrication of rpd –
3. Finishing and polishing –

3. Uni-lateral removable functional space maintainer

1. Construction of c – clasp on 53, 63, 16 & 26 with 21 gauge s.s wire
2. Fabrication of rpd –
3. Finishing and polishing –

4. Removable Hawley's appliance

1. Construction of Adams on 16 & 26 with 21 g s.s wire
2. Construction of labial bow with 21 g wire
3. Fabrication of Hawley's appliance
4. Finishing and polishing

5. Removable Hawley's appliance with palatal crib

1. Construction of Adams on 16 & 26 with 21 g s.s wire
2. Construction of labial bow with 21 g wire
3. Construction of palatal crib with 19 g s.s wire
4. Fabrication of Hawley's appliance with palatal crib
5. Finishing and polishing

Thyphodontic exercises

1. Thyphodontic tooth number : 84
 - A. Outline of class – i cavity
 - B. Restoration of class – i cavity with gic

2. Thyphodontic tooth number : 85
 - A. Outline of class – ii cavity (mesio-occlusal)
 - B. Restoration of class – ii cavity with gic
3. Thyphodontic tooth number : 54
 - A. Outline of class – ii cavity (disto-occlusal)
 - B. Restoration of class – ii cavity with gic
4. Thyphodontic tooth number : 55
 - A. Outline of class – i cavity
 - B. Restoration of class – i cavity with gic

Third year clinical schedule

First term: topics for discussion

1. Tooth numbering system , chronology
Sequence & morphological differences.
 2. Dental caries – i) etio-pathology.
 ii) detection methods.
 Iii) classification.
 Iv) modifications in cavity preparation in primary teeth.
 V) early childhood caries/rampant caries
 Vi) management
 3. Restorative materials: -- i) base/varnish.
 ii) glass ionomer cements
 Iii) amalgam.
 Iv) matrices, retainers, retainers
- (for every material-- composition, classification, mixing time, setting & working time, advantages, disadvantages.)

Practical / clinical

First term-

Typhodont exercise:

Class i & class ii cavity preparation on-- 74,75,54,55

Oral screen.

Removable functional space maintainers.

Second term

Second term topics for discussion

4. Types of occlusion- i) gumpads.

- li) primary.
- lii) mixed.
- Iv) permanent.

5. Oral habits – definition, classification

Thumb sucking habit	]	etiology
Mouth breathing habit	]	clinical features
Tongue thrusting habit	]	management

6. Infection control.

Practical/clinical- Second term

Hawley's appliances.

Tongue crib / palatal crib.

Case history discussion of patient

Clinical work quota

<u>Procedures</u>	<u>No of patients</u>
Restoration	10
Oral prophylaxis	5
Topical fluoride application	5
Extraction	5