

Bachelor of Dental Surgery Programme Course Book II Semesters 5-8

Faculty of Dental Sciences University of Peradeniya 2019

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INTRODUCTION

The main aim of the Bachelor of Dental Surgery (BDS) is to impart the graduates with knowledge, skills and attitudes necessary to make a significant contribution towards promotion, restitution, preservation and maintenance of acceptable oral health and function, which are integral parts of overall health of an individual.

The first four semesters of the BDS study programme have provided the students with pre-requisite knowledge and skills necessary to commence the second phase of the programme from fifth to eighth semesters. This second phase intends to offer them with supervised hands-on clinical training in dentistry, to make them adequately skilled to proceed to the final stage of clinical training which aims to prepare them for independent practice as General Dental Practitioners.

The fifth semester intends to introduce the students to clinical training under three main clinical streams where the focus will be on an integrated approach to care rather than a discipline-based training. The five courses in the fifth semester are Operative Dental Procedures (ODP) [3101], Population Oral Health 1 (POH 1) [3102], Introduction to Adult Oral Health (IAOH) [3103], Clinical and Diagnostic Oral Sciences I (CDOS 1) [3104] and Child & Adolescent Oral Health Care 1 (CAOH 1) [3105].

During the fifth semester, the students will receive training in professional care on patients, as they begin to manage patients who are in need of basic preventive and operative interventions. Students will also receive further training on clinical skills in a Skills Lab under the course 'Operative Dental Procedures', while the clinical rotations in different clinical streams would provide them with sufficient clinical exposure. They will receive hands-on training under close supervision of the staff.

Upon successful completion of the requirements of the fifth semester, the students will move to the sixth semester where they will be further trained under four courses namely, Population Oral Health 2 (POH 2) [3201], Management of Adult Dental Diseases (MADD) [3202], Clinical and Diagnostic Oral Sciences 2 (CDOS 2) [3203] and Child & Adolescent Oral Health Care 2 (CAOH 2) [3204]. Clinical and practical training in these two semesters will mainly take place in designated clinics within the teaching units of AOH, CDOS and CAOH.

At the end of the sixth semester, a student is expected to acquire knowledge and skills necessary for management of patients with basic dental and oral health care needs.

The seventh semester aims to make the students be more competent in clinical skills as they follow a more integrated approach for patient care under three main clinical streams as courses in AOH, CDOS and CAOH, while they will also be introduced into basic statistics and research methodology which enable them to engage in a research project in the 9th semester. Thus, the courses in the seventh semester not only aim to enhance competence in clinical skills for patient care; but to provide a strong underpinning for selfdirected learning and evidence-based dentistry. The four courses in the seventh semester are Adult Oral Health Care 1 (AOH 1) [4101], Clinical and Diagnostic Oral Sciences 3 (CDOS 3) [4102], Child & Adolescent Oral Health Care 3 (CAOH 3) [4103] and Basic Statistics & Research Methodology (BSRM) [4104].

Upon successful completion of courses in the seventh semester, the students will move to the eighth semester where they will undergo comprehensive clinical training further under three main streams, AOH, CDOS and CAOH. The three courses are Adult Oral Health Care 2 (AOH 2) [4201], Clinical and Diagnostic Oral Sciences 4 (CDOS 4) [4202] and Child & Adolescent Oral Health Care 4 (CAOH 4) [4203].

Students are expected to follow all appointments diligently, as the initial phase of clinical training (5th & 6th semesters) and the next level of more advanced skills acquisition would enable them to be competent in clinical skills before they proceed towards the final part of clinical training in the fifth year. Therefore, the training from 5th to 8th semesters will be crucial in acquiring clinical skills related to the practice of dentistry more independently during 9th and 10th semesters.

5TH SEMESTER COURSES

Course No: DS 3101 Course title: Operative Dental Procedures Credits: 6

Pre-requisites: Should have followed all courses of semesters 1 to 4

Aims: The course aims to teach the biological basis and technical aspects of basic investigative and

clinical operative procedures in dental practice.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- > describe causation, pathogenesis and natural history of common dental/oral diseases,
- > perform routine clinical/laboratory dental procedures accurately in a laboratory setting,
- > select and carry out intra-oral radiographic techniques with attention to safety of the patient and clinical staff.

Time Allocation (Hours): Lectures: 45 Practical: 90 Self learning hours: 1				rs: 165	
Course content:					
Lectu	Lectures: Hour				
1.	Local anaesthesia-armamen	tarium and te	chniques		1
2.	Plaque control methods				1
3.	Restoration with Amalgam				1
4.	Introduction and instrumen	ts in exodontia	a		1
5.	Introduction to behavior ma	inagement str	ategies in children		1
6.	Prosthodontic consideration	ns of the dentu	ire bearing area		1
7.	Aetiology of malocclusions				2
8.	Behavior management strat	egies in childr	en		1
9.	Infections in the head and n	eck region			3
10.	Caries risk assessment				1
11.	Pathology of dental caries				1
12.	Periodontal assessment I &	risk assessmei	nt		1
13.	Exodontia techniques				1
14.	Periodontal assessments II				1
15.	Principles of denture retent	ion, support a	nd stability		1
16.	5. Restoration with composites 1			1	
17.	7. Direct veneers 1			1	
18.	Assessment of malocclusion	S			1
19.	Complications of exodontia				1
20.	Atraumatic restorative tech	nique in childr	en		1
21.	Principles of jaw relations an	nd dental artic	ulators		3
22.	Classification of malocclusio	ns			3
23.	Pulp therapy in the primary	dentition			1
24.	Interpretation of Radiograp	าร			1
25.	Hazards of radiation and rac	liation protect	ion methods		1
26.	Aetiology of periodontal dis	eases (PDD)			1
27.	Pathogenesis of PDD				1
28.	Classification of PDD				1
29.	Features of artificial dentition	on			1
30.	Indices in Orthodontics				1
31.	Orthodontic case assessmer	nt			1
32.	Periodontal diagnosis & trea	itment plannii	ng		1
33.	Concepts and techniques of	periodontal d	ebridement		1
34.	Non-carious tooth substance	e loss			1

35.	Discolouration of dental hard tissue	1
36.	Extra oral radiography	1
37.	Processing acrylic dentures & processing errors	1
38.	Relining, repair and rebasing of dentures	1
	Total	45
Practi	icals	
1.	Restoration with amalgam	5
2.	Restoration with composite	5
3.	Veneering	3
4.	Periodontal debridement	10
5.	Anaesthetic techniques	5
6.	Extraction techniques	10
7.	Intra oral radiography	6
8.	Radiographic interpretation	6
9.	Dental Laboratory Technology (DLT)	32
10.	Pulp Therapy	8
	Total	90

- 1. RM Palmer and PD Floyd. 2003. Clinical Guide to Periodontology. 2nd ed.
- 2. TM Roberson et al. 2012. Sturdevant's Art and Science of Operative Dentistry. 6th ed.
- 3. N Garg and A Garg. 2010. Textbook of Operative Dentistry. 2nd ed.
- 4. A Banerjee and TF Watson. 2011. Pickard's Manual of Operative Dentistry. 9th ed.
- 5. G Dimitroulis. 1997. Synopsis of Minor Oral Surgery.4th ed.
- 6. HJ Wilson. 1987. Dental technology and materials for students. 8th ed.
- 7. SC White and MJ Pharoah. 2004. Oral Radiology. 5th ed.
- 8. RM Basker and JC Devenport. 2011. Prosthetic treatment of the edentulous patient. 5th ed.
- 9. A new classification scheme for periodontal and peri-implant diseases and conditionsintroduction and key changes from the 1999 classification (2017 world workshop). Journal of Clinical Periodontology 2018;45:45(suppl 20) S1 – S8.
- 10. Handbook of Pediatric Dentistry (Fourth Edition), Angus C. Cameron and Richard P. Widmer.
- 11. Guidelines on Pulp Therapy for Primary and Immature permanent teeth aapd.org www.aapd.org/media/policies_guidelines/g_pulp.pdf
- 12. V Rangarajan, TV Padmanabhan. Text Book of Prosthodontics. 2nd ed.

Assessment		Percentage Marks
In-course		10%-Restoration of teeth 10%-Teeth setting 10% -Periodontal debridement 10% -Exodontia on a manikin
End-semester	Theory	30%- 10 MCQs & 3 SAQs
	Practical	30% - 4 OSCEs/OSPEs

Course No: DS 3102 Course title: Population Oral Health 1 Credits: 2

Pre-requisites: Should have followed all courses of Semesters 1 to 4

Aims: The course aims to provide an opportunity for the students to view health issues as they affect the population rather than an individual.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- > explain the concepts of population oral health,
- explain the principles of epidemiology, epidemiology of oral diseases/conditions and its relevance to population oral health and clinical practice
- screen individuals using WHO (World Health Organization) basic methods of oral health surveys

Time	Allocation (Hours): Lectures: 15 Clinical/Field Wo	ork: 45
	Self-learning hours: 40	
Cours	e content	
Lectu	res	Hours
1.	Introduction to public health	2
2.	Concepts of health and disease	1
3.	Measurement of health and disease	1
4.	Oral health survey methods including sampling	1
5.	Introduction to epidemiology	1
6.	Epidemiological study designs	1
7.	Epidemiology of dental caries	1
8.	Epidemiology of periodontal diseases	1
9.	Epidemiology of oral cancer and Oral Potential Malignant Disorders(OPMD)	1
10.	Epidemiology of rarer oral diseases	1
11.	Demography	1
12.	Screening	1
13.	Minimum intervention dentistry	1
14.	Primary health Care	1
	Total	15
Clinic	al/Field Work	
1.	WHO basic methods – Caries	3
2.	WHO basic methods- Periodontal diseases	3
3.	Public health approaches in prevention	3
4.	Evidence based dentistry	3
5.	Critical appraisal of literature: Journal club	3
6.	Screening for oral cancer	3
7.	Questionnaire design	6
8.	Oral disease patterns in Sri Lanka	3
9.	Screening for oral disease using WHO basic methods	6
10.	Atraumatic restorative treatment technique	5
11.	Preparation, visit to maternal and child health clinic and discussion	5
12.	State of public health in Sri Lanka	2
	Total	45

- 1. B Daly et al. 2013. Essential Dental Public Health. 2nd ed.
- 2. SS Hiremath. 2011. Text Book of Preventive and Community Dentistry. 2nd ed.
- 3. M Krishna and PL Dasar. 2010. Principles and practice of Public Health Dentistry. 01st ed.
- 4. IG Chestnutt. 2016. Dental Public Health at a Glance. 1st ed.

Assessment		Percentage Marks
In-course		20% -3 EMQs
End competer	Theory	60% - 4 SEQs
End-semester	Practical	20% - 4 OSPEs/OSCEs

Course No: DS 3103 Course title: Introduction to Adult Oral Health

Credits: 2

Pre-requisites: Should have followed all courses of semesters 1 to 4

Aims: The course aims to introduce students to the restorative management of common dental

and periodontal diseases and conditions of adult patients.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- assess the dental and periodontal status of an adult accurately to detect common dental and periodontal diseases,
- identify dental/periodontal treatment needs and formulate simple treatment plans for adult patients,
- manage common dental/ periodontal diseases and conditions of adult patients by performing basic treatment procedures/preventive measures related to preservation, restoration and replacement of teeth.

Time A	Ilocation (Hours): Clinical work: 90 Self Learning hours: 10		
Course	content		
Clinica	ls:	Hours	
1.	Management of a partially dentate adult with a simple partial denture	30	
2.	Basic restorations on patients		
3.	Periodontal assessments on patients		
4.	Basic periodontal diagnosis & formulating simple treatment plans		
5.	Patient motivation and education on plaque control methods		
6.	Basic periodontal treatment/care on patients with mild periodontal disease		
	Tota	l 90	

- 1. Palmer and Floyd. 2003. Clinical Guide to Periodontology. 2nd ed.
- 2. S Reddy. 2011. Essentials of Clinical Periodontology and Periodontics. 3rd ed.
- 3. TM Roberson, HO Heymann, EJ Swift and CM Sturdevant. 2013. Sturdevant's Art and Science of Operative Dentistry. 6th ed.
- 4. N Garg and A Garg. 2010. Textbook of Operative Dentistry. 1st ed.
- 5. A Banerjee and TF Watson. 2011. Pickard's Manual of Operative Dentistry. 9th ed.
- 6. RR Welbury and TA Gregg. 2003. Managing Dental Trauma edited. 1st ed.
- 7. JO Andreasen , FM Andreasen and L Andersson. 2007. Textbook and Color Atlas of Traumatic Injuries to the Teeth. 4th ed.
- 8. M Addy, WM Edgar and G Embery. 2000. Tooth Wear and Sensitivity: Clinical Advances in Restorative Dentistry. 1st ed.
- 9. RM Basker and JC Devenport. 2011. Prosthetic treatment of the edentulous patient. 5th ed.
- 10. V Rangarajan, TV Padmanabhan. Text Book of Prosthodontics. 2nd ed.

Assessment		Percentage Marks
		20%- Restoration of teeth
In-course		15%-Impression making
		15%-Patient education on plaque control methods
End-semester	Clinical	50% - 6 OSCEs/OSPEs

Course No: DS 3104

Course Title: Clinical and Diagnostic Oral Sciences 1

Credit value: 2

Pre-requisites: Should have followed all courses of Semesters 1 to 4

Aims: The course aims to impart skills in the diagnosis and basic management of common infections

of the oro-facial region and to introduce exodontia on patients.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- arrive at a provisional diagnosis of oro-facial infections at a primary care level,
- decide on the basic investigative procedures required in the management of common diseases/conditions of the oro-facial region,
- > assess the need for minor oral surgical procedures in patients,
- > carry out simple exodontia in patients.

Time a	allocation (Hours):	Clinical work:90	Self-learning hours: 10	
Clinica	als:			Hours
1.	Pathological techniques of oral diagnosis		05	
2.	Infections of the Oro-Facial Region		15	
3.	. Exodontia and minor oral surgery		70	
			Total	90

- 1. BW Neville, et al. 2009. Oral and Maxillofacial Pathology. 3rd ed.
- 2. S Warnakulasooriya and WM Tilakaratne. 2014. Oral Medicine and Pathology. 1st ed.
- 3. A Ghom. 2006. Textbook of Oral Medicine. 1^{st} ed.
- 4. TA Turvey et al. 2009. Oral and Maxillofacial Surgery Volume I. 2nd ed.

Assessment		Percentage Marks
In-course		40%- Exodontia 10%- Clinical
End-semester	Clinical	50% - 5 OSCEs

Course No: DS 3105 Course title: Child and Adolescent oral health care 1 Credits:2

Pre-requisites: Should have followed all courses from semesters 1 to 4

Aims: The course aims to introduce students to the management of child/adolescent patients with simple oral/dental diseases and conditions by applying knowledge and skills in basic preventive, interventional/ corrective treatment procedures.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- carry out a basic assessment to determine the dental and oral status of a child/adolescent patient for common dental and oral diseases and conditions,
- carry out preventive and basic treatment procedures in the management of dental caries in children and adolescents.

Time Allocation (Hours):	Clinical work: 90	Self Learning: 10)
Course content:			
Clinicals:			Hours
1. Introduction to dental care of chil	d patients with simple	treatment needs	50
Basic orthodontic assessment and with a malocclusion	l diagnosis of a child or	r adolescent patient	40
		Total	90

- 1. Handbook of Pediatric Dentistry (Fourth Edition), Angus C. Cameron and Richard P. Widmer.
- 2. Paediatric Dentistry, 4th edition, Richard Welbury, Monty S. Duggal, Marie Therese Hosey
- 3. Contemporary Orthodontics. 4thed.WRProffit, HW Fields Jr. and DM Sarver. 2007.

Assessment		Percentage Marks
In-course		20%- Assessment of a child patient 20%-Case assessment and diagnosis of malocclusions
End-semester	Clinical	60% - 6 OSCEs

6TH SEMESTER COURSES

Course No: DS 3201 Course title: Population Oral Health 2 Credits: 2

Pre-requisites: Should have followed all courses up to the end of 5th semester

Aims: The course aims to provide the students with knowledge and skills necessary to promote oral health, prevent and control oral diseases in the community and issues related to oral health care delivery.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- describe the methods of preventing and controlling common oral diseases at individual and population level
- describe the organization of services available for provision of oral health care and the various systems in existence, their structure, function, methods of financing, remuneration and limitations
- > explain the principles and concepts of health promotion including health education
- undertake group / individual health education and carry out clinical preventive dentistry procedures for dental caries and periodontal disease

Time A	Allocation (Hours): Lectures: 15 Clinical/Field work	: 45
	Self-learning: 40	
Lectur	es	Hours
1.	Health and environment	2
2.	Health education	1
3.	Health promotion	1
4.	Modes of action of fluoride and fluoride toxicity	1
5.	Prevention of dental caries- Systemic fluoride therapy	1
6.	Prevention of dental caries- Topical fluoride therapy	1
7.	Prevention of dental caries-Fissure sealants	1
8.	Diet, nutrition and oral disease	1
9.	Prevention of oral cancer	1
10.	Prevention of periodontal disease	1
11.	Organization of health care delivery systems	1
12.	Professionals complimentary to dentistry	1
13.	Planning of oral health services including human resources	1
14.	Introduction to health economics	1
Total		15
Clinica	I/Field work	
1.	Introduction to preventive Clinic	3
2.	Preventive clinic	12
3.	Preparation for School Dental Clinic (SDC), Hospital Dental Clinic (HDC) &	3
	General Dental Practice (GDP) visits	
4.	Visit to a SDC	4
5.	Visit to a HDC	4
6.	Visit to a GDP	4
7.	Visit to the Regional Dental Surgeon – provincial health services	3
8.	Discussion on SDC, HDC & GDP visits	3
9.	Health care planning and management	3
10.	Health education	6
	Total	45

- 1. B Daly et al. 2013. Essential Dental Public Health. 2nd ed.
- 2. SS Hiremath. 2011. Text Book of Preventive and Community Dentistry. 2nd ed.
- 3. M Krishna and PL Dasar. 2010. Principles and practice of Public Health Dentistry. 01st ed.
- 4. IG Chestnutt. 2016. Dental Public Health at a Glance. 1st ed.

Assessment		Percentage Marks
In-course		20% - 3 EMQs
End-semester	Theory	60% - 4 SEQs
	Practical	20% - 4 OSPEs/OSCEs

Course No: DS 3202

Course title: Management of Adult Dental Diseases

Credits: 6

Pre-requisites: Should have followed all courses up to the end of 5th semester

Aims: The course aims to advance the clinical competencies of students in restorative management of common dental and periodontal diseases and conditions of adult patients.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- diagnose dental and periodontal diseases/conditions, and identify treatment needs of an adult patient,
- > formulate treatment plans, considering the identified treatment needs of an adult patient,
- carry out treatment procedures for common dental and periodontal diseases/conditions in an adult patient,
- provide preventive care and minimal intervention strategies to prevent the progression of diseases/ conditions affecting dental and periodontal tissues

Time Allocation (Hours):		Lectures:30	Practical: 30	Clinical: 135
Self-learning: 105				
Course content:				
Lecture	es:			Hours
1.	Partially dentate patient options	assessment, treatme	ent planning and treatment	1
2.	Occlusal and periodontal	assessment of partia	lly dentate patient	1
3.	Introduction to removab	le partial dentures-cla	assification and components	1
4.	Principles of endodontics			1
5.	Clinical and laboratory st	ages involved in remo	ovable prosthodontics	1
6.	Endodontic diagnosis			1
7.	Patient Assessment in en	dodontics		1
8.	Clinical assessment and in prosthodontics	mpression making in	complete denture	1
9.	Materials and instrument	ts used in endodontic	S	1
10.	Jaw relation registration prosthodontics	and selection of teet	n in complete denture	1
11.	Periodontal re-evaluation	า		1
12.	Occlusion and articulatio	n in complete dentur	e prosthodontics	1
13.	Root canal morphology a	nd canal configuratio	ns	1
14.	Endodontic access and w	orking length estimat	tion	1
15.	Root canal preparation u	sing standard and rot	ary files	2
16.	Periodontal diagnosis, pr	ognosis and treatmer	nt planning for complex cases	5 1
17.	Management of risk facto	ors in periodontal dis	eases	1
18.	Laboratory stages involve	ed in complete dentu	re construction	1
19.	Try-in stage, denture inse prosthodontics	ertion and review in c	omplete denture	1
20.	Obturation and obturation	on techniques		1
21.	Complications in endodo	ntics		1
22.	Assessment of endodont	ically treated teeth		1
23.	Systemic -periodontal int	errelation and clinica	l considerations	1
24.	Restoration of root filled	teeth		1
25.	Periodontal-endodontic l	esions – diagnosis &	prognosis	1
26.	Treatment of periodonta	I-endodontic lesions		1
27.	Occlusal factors and occluse	usal traumatism in pe	eriodontal disease	1

28. Perio-restorative Interface	1
29. Periodontal management of special care patients	1
Total	30
Practicals:	
1. Dental Laboratory Technology (DLT)	10
2. Endodontics	20
Total	
Clinicals:	
1. Management of adult partially dentate patients with removable part	ial 45
dentures	
2. Endodontic treatment on patients	45
3. Periodontal management of patients with mild to moderate degree	of 45
periodontitis	
Total	135

- 1 BS Chong. 2010. Harty's Endodontics in Clinical Practice. 6th ed.
- 2. S Reddy. 2011. Essentials of Clinical Periodontology and Periodontics. 3rd ed.
- 3. Chapple and Gilbert. 2002. Understanding Periodontal Diseases: Assessment and Diagnostic Procedures in Practice. 1st ed.
- 4. Heasman, Preshaw and Robertson. 2004. Successful Periodontal Therapy A Non-Surgical Approach. 1st ed.
- 5. RM Basker and JC Dvenport. 2011. Prosthetic treatment of edentulous patients. 5th ed.
- 6. JF McCord and AA Grant. 2000. A clinical guide to complete denture prosthetics. 1st ed.

Assessment		Percentage Marks
In-course		10% - Treatment planning for a partially dentate patient 10% - Clinical procedure- Scaling + RSD of a quadrant 10% - RCT on an anterior tooth
End-semester	Theory	30% - 3 SAQs
	Practical/Clinical	40% - 5 OSCEs/OSPEs

Course No: DS 3203

Course title: Clinical and Diagnostic Oral Sciences 2

Credit value: 4

Pre-requisites: Should have followed all courses up to the end of 5th semester

Aims: The course aims to provide knowledge and skills required for the diagnosis and basic management of oro-facial pain and benign conditions of the oro-facial region. The course also aims to introduce students to the management of emergencies in dental practice.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- describe causation, pathogenesis and natural history of oro-facial pain conditions, other benign conditions of the oro-facial region and necessary management strategies of these conditions,
- identify appropriate imaging techniques and other investigative procedures in the diagnosis and management of oro-facial diseases/conditions,
- arrive at a differential diagnosis of oro-facial pain conditions and other benign conditions of the orofacial region,

Clinical work:90

Self-learning:80

> carry out complicated exodontia in patients.

Time Allocation (Hours): Lectures:30

> recognize emergencies in dental practice and take appropriate action on such situations.

Course	content:		
Lectur	Lectures		
1.	Aetiology of oro-facial pain	2	
2.	Assessment of oro-facial pain	1	
3.	Management of oro-facial pain	3	
4.	Benign lesions in the oro-facial region	5	
5.	Assessment of benign lesions in the oro-facial region	3	
6.	Management of benign lesions in the oro-facial region	3	
7.	Management of complicated exodontia and minor oral surgery	7	
8.	Investigations used in diagnosis of oro-facial diseases/conditions	1	
9.	Application of intra and extra-oral radiographic methods	1	
10.	Special imaging modalities in the maxillo-facial region	2	
11.	Emergencies in dental practice	2	
	Total	30	
Clinica	1		
1.	Oro-facial pain management	20	
2.	Benign lesions in the oro-facial region	20	
3.	Management of complicated exodontia	40	
4.	Application of intra and extra-oral radiographic methods and special	10	
	imaging modalities in maxillo-facial region		
	Total	90	

- 1. BW Neville et al.2009.Oral and Maxillofical Patholigy. 3rd ed.
- 2. S Warnakulasooriya and WM Tilakaratne. 2014. Oral Medicine and Pathology. 1st ed.
- 3. A Ghom. 2006. Textbook of Oral Medicine. 1st ed.
- 4. TA Turvey et al. 2009. Oral and Maxillofacial Surgery Volume I and II. 2nd ed.
- 5. SC White and MJ Pharoah. 2009. Oral Radiology. 6th ed.
- 6. RD Jayasinghe. 2012. Dental radiography and radiology for dental students. 1st ed.

Assessment		Percentage Marks
In-course-clinica	I	15% - Complicated exodontia 15% - Assessment and treatment planning of a patient with oro-facial pain/benign oral condition
End-semester	Theory	30% - 3 SAQs
	Practical/Clinical	40% - 6 OSPEs/OSCEs

Course No: DS 3204 Course title: Child and Adolescent Oral Health Care 2 Credits:4

Pre-requisites: Pre-requisites: Should have followed all courses up to the end of 5th semester

Aims: The course aims to provide an opportunity for students to advance their competency in the management of common oral/dental diseases and conditions in child/adolescent patients.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- diagnose dental and oral diseases/conditions and identify treatment needs of a child/adolescent patient,
- formulate treatment plans, considering the identified treatment needs of a child/adolescent patient,
- carry out treatment for dental and oral diseases/conditions by considering overall treatment needs in a child/adolescent patient,
- carry out emergency and preliminary management of uncomplicated dental trauma in a child/adolescent patient.

Time Allocation (Hours): Clinical work: 45 **Clinical demonstrations:** 15 Lectures:30 Self Learning:110 Lectures : Hours 1 Dental trauma in children 3 2 2. Orthodontic tooth movement Developmental dental anomalies in children 2 3. 4 4. Basic principles of orthodontic treatment planning 4 5. Management of traumatic dental injuries 5 Management of developmental dental anomalies in children 6. 1 7. Periodontal diseases in children 8. Methods of space gaining in orthodontic treatment 1 1 9. Extraction of teeth in orthodontics 10. Principles of removable appliances 4 3 11. Management of patients with removable appliances Total 30 **Clinical works:** Management of patients with caries, dental trauma, developmental anomalies 45 1. of teeth, periodontal disease and common mucosal lesions 2. Treatment planning of simple malocclusions and management with simple removable appliances 45 Total **Clinical demonstrations** 1 1. Perform pulp sensibility test 2 Radiographic interpretation of traumatic dental injuries 2. 2 3. Radiographic interpretation of developmental anomalies of teeth 4. Construction of removable appliances 10 Total 15

- 1. Handbook of Pediatric Dentistry (Fourth Edition), Angus C. Cameron and Richard P. Widmer.
- 2. Paediatric Dentistry RichardWelbury, Monty S. Duggal, Marie Therese Hosey, 4th edition,
- 3. JO Andreasen et al. 2011. Traumatic Dental Injuries: A Manual. 3rd ed.
- 4. Contemporary Orthodontics. 4th ed. WR Proffit, HW Fields Jr. and DM Sarver. 2007.
- The design, Construction and use fo Removable Orthodontic Appliances ,C.Philip Adams, W.John S Kerr– 6th Edition
- 6. An introduction to Orthodontics, Laura Mitchell .- 4th ed

Assessment		Percentage Marks
In-course		 15% - In-course assessment 1 - Treatment planning of a patient with a simple malocclusion 15% - In-course assessment 2 - Treatment planning of a child patient with common dental diseases
End-semester	Theory	40% - 3 SAQs
	Practical	30% - 4 OSPEs/OSCEs

7THSEMESTER COURSES

Course No: DS 4101 Course title: Adult Oral Health Care 1 Credits: 6

Pre-requisites: Should have followed all courses up to the end of 6th semester

Aims: This course aims to make the students be more competent in the management of adult oral and dental diseases/conditions by applying routine treatment methods as well as to introduce them to comprehensive treatment strategies in the overall restoration of the dental and oral status.

Intended learning outcomes:

On successful completion of learning the students should be able to:

- Have thorough knowledge and understanding of different treatment options available in the overall dental and oral care of an adult dental patient
- > Be able to formulate comprehensive treatment plans for an adult patient
- > Be able to explain the advantages and disadvantages of different approaches of treatment
- > Be able to provide reasons justifying the selected treatment option for a given patient
- > Be able to perform basic surgical procedures on patients
- Be able to provide necessary post-treatment follow-up and maintenance care for an adult dental patient.

Time Allocation (Hours): Lectures: 30 Practical: 30 Clinical: 135 Self-le	earning: 105
Lectures:	Hours
1. Preparation of denture bearing area prior to complete dentures	1
2. Relevance of existing dentures	1
3. Cast surveying	1
4. Principles of metal casting	1
5. Clinical protocol in partial denture construction	1
6. Removable partial dentures-designing	1
7. Removable partial dentures-mouth preparation	1
8. Removable partial dentures- management of free end saddle	1
9. Transition from natural to artificial dentition	2
10. Periodontal treatment planning for patients with complex treatment needs	1
11. Case selection for surgical periodontal therapy	1
12. Principles in periodontal surgery	1
13. Basic surgical procedures in periodontal therapy	1
14. Antimicrobials in periodontal therapy	2
15. Acute periodontal diseases/conditions	1
16. Introduction to indirect restorations	1
17. Classification of crowns	1
18. Patient assessment for indirect restorations	1
19. Principles of dental aesthetics and assessment of aesthetics	1
20. Principles of tooth preparation for indirect restorations	1
21. Impression materials and techniques of crown and bridgework	1
22. Provisional crowns and techniques	1
23. Laboratory techniques in crown and bridge	1
24. Cementation and post operative care	1

25. Endodontic complications and introduction to surgical endodontics	1		
26. Designing of complete dentures -appearance	1		
27. Designing of complete dentures-occlusal and muscle balance	1		
28. Oral health care in aging population	1		
Total	30		
Practicals:			
1. Crown preparations/impression making and temporization on			
extracted/typodont teeth	30		
2. Casting techniques	50		
Total	30		
Clinicals:			
Management of adult patients with multiple restorative treatment needs	135		
(Restoration of space with removable partial dentures, management of			
moderate to advanced degree of periodontitis, endodontic treatment including			
endodontic complications, crowns and post retained crowns)			
Requirement – All students should maintain a log book of cases under AOH courses from 7 th			
semester onwards (AOH 1- AOH 4). Log book with all cases recorded will be assessed during the			
10 th semester under AOH 4.			
Total	135		

- 1. Heasman, Preshaw& Robertson. 2004. Successful Periodontal Therapy A Non-Surgical Approach. 1sted.
- 2. Warnakulasuriya & Tilakaratne. 2014. Oral Medicine & Pathology A guide to Diagnosis and Management. 1sted.
- 3. Edited by M O'Sullivan. 2004. Fixed Prosthodontics in Dental Practice. 1sted.
- 4. Edited by D Bartlett and D Ricketts. 2007. Indirect Restorations. 1sted.
- 5. Edited by R Wassell, A Naru, J Steele and F Nohl. 2008. Applied Occlusion. 1sted.
- 6. David Bartlett and PA Brunton. 2005. Aesthetic Dentistry.1sted.
- 7. JC Devenport, RM Basker, JP Ralph and PO Glantz. 2000. A clinical guide to removable partial dentures. 2nded.

Assessment		Percentage Marks
In-course	Clinical	 10% - Clinical 1- removable prosthesis on a partially dentate patient 10% - Clinical 2- periodontal treatment planning of a patient with periodontitis 10% Clinical 3- Preparation of an anterior tooth for a porcelain fused to metal crown on a phantom head
End compostor	Theory	30% - 3 SAQs
End-semester	Practical/Clinical	40% - 6 OSCEs/OSPEs

Course No: DS 4102

Course title: Clinical and Diagnostic Oral Sciences 3

Credit value: 6

Pre-requisites: Should have followed all courses up to the end of 6th semester

Aims: This course aims to provide an opportunity for students to acquire the knowledge and skills required for the diagnosis and basic management of oral potentially malignant disorders (OPMD) and oral cancer, temporomandibular disorders and oral manifestations of systemic diseases.

Intended learning outcomes:

On successful completion of learning the students should:

- Demonstrate knowledge in the causation, pathogenesis and natural history of temporomandibular disorders (TMDs) and to have sufficient skills in the management of TMDs
- Diagnose/detect/ suspect oral cancer, pre-malignant conditions, patients at risk or the presence of predisposing factors, and to be aware of their management procedures / advice patients with empathy
- > Refer patients appropriately for definitive / advanced treatment of the above conditions
- Demonstrate knowledge of the causation, pathogenesis and natural history of oral manifestations of systemic diseases, be able to manage them at the primary care level and refer patients appropriately for advanced treatment.

Time Allocation (Hours): Lectures 30 Practical 30 Clinical demonstrations 10 Clinical 105, Self-learning 125

	-	
Lectures:		
1. Etiology and pathogenesis of OPMDs and oral cancer	3	
2. Clinical features of OPMDs and oral cancer	1	
3. Clinico-pathological correlation of OPMD and oral cancer	2	
4. Early diagnosis of OPMDs and oral cancer and diagnostic aids	1	
5. Treatment of OPMD and oral cancer	4	
6. Effects of radiation/ chemotherapy on oral tissues	1	
7. Post-operative follow up of cancer patients	1	
8. Rehabilitation of patients with OPMDs and oral cancer	1	
9. Role of a dental surgeon in the management of OPMD/ oral cancer	1	
10. Applied anatomy of the masticatory apparatus	1	
11. Epidemiology, etiology and classification of TMDs	1	
12. Clinical features of TMDs	1	
13. Diagnostic criteria, imaging and other special investigations for TMDs	1	
14. Treatment modalities for TMDs	2	
15. Clinical features of oral manifestations of systemic diseases	2	
16. Pathology of oral manifestations of systemic diseases	2	
17. Oral manifestations of immune-mediated diseases	1	
18. Etiology and pathogenesis of fibro-osseous lesions	1	

19. Clinical features and management of fibro-osseous lesions	1
20. Oral pigmentation	1
21. Adverse effects of drug therapy on oral tissues	1
Total	30
Practical -Histopathology:	
1. OPMDs and oral cancer	
2. Oral manifestations of systemic diseases	30
3. Immune-mediated diseases	50
4. Fibro-osseous lesions	
Total	30
Clinical demonstrations:	
1. OPMDs and oral cancer- diagnosis and early detection	10
2. TMDs	
Total	10
Clinical:	
1. OPMDs and oral cancer	
2. TMDs	105
3. Oral manifestations of systemic diseases	
Total	105

1. BW Neville, DD Damm, CM Allen and JE Bouquot. 2009. Oral and Maxillofacial Pathology. 3rded.

2. S Warnakulasooriya and WM Tilakaratne. 2014. Oral Medicine and Pathology. 1sted.

3. A Ghom. 2006. Textbook of Oral Medicine. 1sted.

4. TA Turvey, JR Scully, PD Whaite, BJ Costelo and RL Ruiz. 2009. Oral and Maxillofacial Surgery VolumeII. 2nded.

5. E Odell and R Cawson. 2008. Essentials of Oral Medicine and Pathology. 8thed.

Assessment		Percentage Marks
In-course Clinical		15% - 01 clinical case (OPMD/oral cancer)
	Theory	15% -10 MCQs
End compostor	Theory	30% - 03 SAQs
End-semester	Practical/Clinical	40% - 06 OSCEs/OSPEs

Course No: DS 4103	
Course title: Child and Adolescent Oral Health Care 3	
Pre-requisites: Should have followed all courses up to the end of 6 th semester	
Aims: This course aims to provide the students with knowledge and skills need	essary in the
diagnosis, treatment planning and in carrying out dental treatment procedure	s in child and
adolescent patients and children with special health needs.	
Intended learning outcomes:	
On successful completion of the course the students should be able to:	
> be able to demonstrate sufficient knowledge in common oral diseases and	conditions in
children and adolescents	conto
Be able to plan treatment for common dental/oral diseases and conditions	in child and
adolescent patients	
> Be able to treat common dental/oral diseases and conditions in child an	d adolescent
patients including simple malocclusions.	
> Be able to manage common oral diseases in children with special health needs.	
Time Allocation (Hours): Lectures: 15 Clinical demonstrations:15 clini	cal: 90
Lectures:	Hours
1 Endodontics in children	3
2 Complex restorative procedures in children	1
3 Oral lesions in children	1
	1
4. Pharmacological management of the anxious child	1
5. Timing of orthodontic treatment	1
6. Implications of growth in orthodontics	2
7. Introduction to functional appliances	1
8. Management of patients with functional appliances	2
9. Fixed orthodontic therapy	1
10. Post orthodontic retention and stability	2
Total	15
Clinical demonstrations:	
1. Pulp therapy in primary teeth	
2. Pulp therapy in permanent immature teeth	
3. Treatment of teeth with developmental anomalies	
4. Bite registration in functional appliances	15
5. Designing, delivery of removable and functional appliances	
 Fixed of thought appliances Orthodoptic retainers 	
Total	15
Clinical:	
1 Pulp therapy of deciduous teeth	
2. Endodontics in immature permanent anterior teeth	

3.	Pharmacological management of an anxious child	
4.	Management of patients with class II malocclusions with growth	90
	modification appliances	90
5.	Management of patients with orthodontic retainers	
6.	Fixed orthodontic appliances	
	Total	90

- 4. JO Andreasen et al. 2011. Traumatic Dental Injuries: A Manual. 3rded.
- 5. R Welbury et al. 2012. Paediatric Dentistry. 4thed.
- 6. AC Cameran and RP Widmer. 2013. Handbook of Pediatric Dentistry. 4thed.
- 7. WR Proffit, HW Fields Jr. and DM Sarver. 2007. Contemporary Orthodontics. 4thed.

Assessment		Percentage Marks
In-course	Clinical	15% - Clinical case 1 15% - Clinical case 2
End competer	Theory	30% -10 MCQs and 2 SAQs
End-semester	Practical	40% - 6 OSCEs/OSPEs

Course No: DS 4104 Course title: Basic Statistics and Research Methodology Credits: 2

Pre-requisites: None

Aims: The course aims to give an understanding in basic statistics and research methodology required for a dental graduate to effectively engage in evidence-based dentistry and self-directed learning, and to carry out a basic research and disseminate reliable information.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- > Appreciate the value of evidence-based dentistry and the role of research
- > Engage in evidence-based dentistry
- > Demonstrate an understanding of the principles of biostatistics and research methodology as applied to the various fields of dentistry.

Time Allocation (Hours): Lectures: 20 Discussions: 10 Self learning: 70	
Course content:	
Lectures:	Hours
1. Scientific Information and evidence-based practice	1
2. Scientific method and the research process	2
3. Scales of measurement	1
4. Data reduction and presentation	1
5. Descriptive statistics in parametric and non-parametric methods	2
6. Probability and distributions	1
7. Hypothesis testing and inferential statistics	1
8. Comparing two means	1
9. Comparing proportions	1
10. Correlation and regression	1
11. Conceiving a good research question	1
12. Structure and function of research	1
13. Generalizability findings	2
14. Sampling and sample size	2
15. Measurements and sources of error	1
16. Research types and designs	1
Tota	l 20
Discussions:	
3. Using scientific literature with open source reference management software	2
4. Calculation of measures of central tendency and dispersion	4
5. Principles of questionnaire design	2
6. Writing a research proposal	2
Tota	l 10
Students have the flexibility in carrying out research project in community la	poratory and

Students have the flexibility in carrying out research project in community, laboratory and clinical setting.

- 1. S Boslaugh and PA Watters. 2012. Statistics in a Nutshell. 2nd ed.
- 2. SP Glasser. 2014 Essentials of Clinical Research. 2nd ed.
- 3. JE Mauch and N Park. 2003. Guide to the Successful Thesis and Dissertation. 5th ed.
- 4. R Kumar. 2014. Research Methods: a step-by-step guide for beginners. 4th ed.

- 5. MJ Campbell and TDV Swinscow. 1996. Statistics at Square One. 9th ed.
- 6. MJ Campbell. 2006. Statistics at Square Two: Understanding Modern Statistical Applications in Medicine. 2nd ed.
- 7. RW Pallegama and RO Thattil. 2014. Basic Statistics for Dental Students. 1st ed.
- 8. RW Pallegama and RO Thattil. 2016. Research Methodology Simplified: A Textbook for Students of Health Sciences with Instructions for self-learning and practice.

Assessment		Percentage Marks
In-course	Theory	05% - Quiz 25% -10 MCQs
End-semester	Theory	70% - 3 SAQs

8TH SEMESTER COURSES

Course No: DS 4201 Course title: Adult Oral Health Care 2 Credits: 6

Pre-requisites: Should have followed all courses up to the end of 7th semester

Aims: This course aims to empower students in decision-making skills in treatment planning in the overall restorative management of an adult patient. They should be able to perform selected advanced procedures during the process of overall restorative rehabilitation.

Intended learning outcomes:

On successful completion of the course the students should be able to:

- Demonstrate an adequate knowledge and skills to formulate comprehensive treatment plans that include plans for advanced treatment methods.
- Critically discuss the treatment plans designed for individual patients in the total restorative rehabilitation.
- Carry out clinical procedures routinely practiced on patients sufficient for the level of a general dental practitioner
- > Carry out clinical procedures involved in the rehabilitation of adult patients

Time Allocation (Hours): Lectures: 30 Clinical demonstrations: 15 Clinical	: 135
Self-learning: 120	
Course Content:	
Lectures:	Hours
1. Special impression techniques	1
2. Dental care for the elderly	1
3. Assessment and management of denture complaints- I, II	2
4. Maxillo-facial prosthodontics –I, II	2
5. Splints, stents and mouth guards	1
6. Additional retentive aids, magnets and precision attachments	1
7. Dental implants	5
8. Muco-gingival surgery and soft tissue grafts	1
9. Periodontal flap designs and bone grafts	1
10. Management of furcation involved teeth	1
11. Periodontal regeneration and wound healing	1
12. Treatment planning modifications for patients with periodontal surgical care needs	1
13. Introduction and classification of bridges	1
14. Patient assessment and preparation of patients for bridges	1
15. Preparation techniques for bridges	1
16. Design principles of pontics, abutments and bridges	1
17. Complications of crown and bridgework	1
18. Management of complex cases with fixed prosthodontics	1
19. Tooth preparation for inlay, onlay and veneer	1
20. Restoration of a grossly broken down tooth	1
21. Rehabilitation of a patient with dental trauma	1
22. Rehabilitation of a patient with tooth wear	1
23. Periodontal restorative interface	1
24. Orthodontic restorative interface	1
Total	30
Clinical:	
Management of edentulous patients with conventional complete dentures.	
Management of adult patients with multiple restorative treatment needs (restoration	135

of space periode	e with removable and fixed prosthesis, management of patients with advanced ontitis)	
Contin	ue to maintain a log book for AOH courses	
	Total	135
Clinica	Demonstrations:	
1.	Special impression techniques: anterior window technique	1
2.	Special impression techniques: neutral zone impression	1
3.	Special impression techniques: copy dentures	2
4.	Relining –clinical procedure	1
5.	Types of bridges and preparation principles	2
6.	Preparation of a bridge on typodont teeth	2
7.	Preparation of a bridge on a patient	2
8.	Build up of a grossly broken-down tooth	2
9.	Implant placement on a patient	2
	Total	15

- 1. D Williams, FJ Hughes, EW Odell and P Farthing. 2008. Pathology of Periodontal Disease. 8thed.
- 2. J Lindhe.2008. Clinical Periodontology and Implant Dentistry. 5thed.
- 3. Edited by: M O'Sullivan. 2004. Fixed Prosthodontics in Dental Practice. 1sted.
- 4. Edited by D Bartlett and D Ricketts. 2007. Indirect Restorations. 1sted.
- 5. RM Basker and JC Davenport. 2011. Prosthetic treatment of the edentulous patient. 5thed.

Assessment		Percentage Marks
		10% - Patient 1 (Assessment of a follow-up patient who was managed with complete dentures)
In-course	Clinical	20% - Patient 2 (Assessment of a follow-up patient who was treated for multiple restorative needs, and carryout a given treatment procedure)
End compostor	Theory	30% - 3 SAQs
End-semester	Practical/Clinical	40% - 6 OSPEs/OSCEs

Course No: DS 4202		
Course title: Clinical and Diagnostic Oral Sciences 4		
Credit value: 6		
Pre-requisites: Should have followed all courses up to the end of 7th semester	go and skills	
A find the second		
required for the diagnosis and management of salivary gland disorders, oral	ulceration,	
maxillofacial anomalies, maxillofacial trauma and to impart sufficient knowledge	in Forensic	
Odontology.		
Intended learning outcomes:		
On successful completion the students should be able to:		
Demonstrate knowledge of the causation, pathogenesis and natural histor	y of salivary	
gland disorders and oral ulceration, and have sufficient skills in the managem	ent of these	
 Demonstrate sufficient knowledge in the diagnosis and management of 	maxillofacial	
anomalies and maxillofacial trauma		
Carry out an assessment on a patient with maxillofacial anomalies and trauma	maxillofacial	
 Refer patients appropriately for definitive / advanced treatment of the above 	conditions	
Demonstrate good knowledge in Forensic Odontology and to demonstrate su	fficient skills	
in using the knowledge in the appropriate management of cases.	Solf	
learning: 90		
Lectures	Hours	
1. Etiopathogenesis and clinico- pathology of salivary gland diseases(SGD)	4	
2. Surgical & non-surgical management of SGD	2	
3. Xerostomia and its effects on oral tissues	1	
4. Etiopathogenesis and clinico-pathology of oral ulceration	3	
5. Management of oral ulcers	1	
6. Craniofacial anomalies	2	
7. Management of cleft lip and palate	1	
8. Management of soft tissue anomalies of the oral cavity	1	
9. Multidisciplinary management of jaw deformities		
10. Forancia Odontology	2	
10. Forensic Odontology	2 5	
10. Forensic Odontology 11. Epidemiology, causes, clinical features of maxillofacial trauma	2 5 2	
 10. Forensic Odontology 11. Epidemiology, causes, clinical features of maxillofacial trauma 12. Imaging for maxillofacial trauma 	2 5 2 1	
 10. Forensic Odontology 11. Epidemiology, causes, clinical features of maxillofacial trauma 12. Imaging for maxillofacial trauma 13. Management of maxillofacial injuries 	2 5 2 1 1	
 10. Forensic Odontology 11. Epidemiology, causes, clinical features of maxillofacial trauma 12. Imaging for maxillofacial trauma 13. Management of maxillofacial injuries 14. Basics in the management of fractures of the mandible and middle third of the facial skeleton and prevention of maxillofacial trauma 	2 5 2 1 1 3	

Total	30
Practical	
1. Histopathology of salivary gland disorders	
2. Histopathology of oral ulceration	30
3. Forensic odontology	50
Total	30
Clinical	
1. Salivary gland disorders	
2. Oral ulceration	150
3. Maxillo-facial anomalies/ cleft lip and palate	150
4. Maxillofacial trauma	
Total	150

- 1. BW Neville, DD Damm, CM Allen and JE Bouquot. 2009.Oral and Maxillofacial Pathology. currented.
- 2. S. Warnakulasooriya and WM Tilakaratne. 2014. Oral Medicine and Pathology. current ed.
- 3. MS Greenberg and M Glick. 2003. Burket's Oral Medicine. current ed.
- 4. TA Turvey, JR Scully, PD Whaite, BJ Costelo and RL Ruiz. 2009. Oral and Maxillofacial Surgery Volume, III. current ed.
- 5. E Odell and R Cawson. 2008. Essentials of Oral Medicine and Pathology. current ed.
- 6. C Scully. 2013. Oral and Maxillofacial Medicine. current ed.
- 7. Raymond J. Fonseca DMD, H. Dexter Barber. 2012, Oral and Maxillofacial Trauma.
- 8. U. J. Moore. 2011. Principles of Oral and Maxillofacial Surgery.
- 9. Raymond J. Fonseca DMD , 2017 .Oral and Maxillofacial Surgery: 3-Volume Set.

Assessments

Assessment	Percentage Mark	
In-course	Theory	15% - 10 MCQs
	Clinical	15% - 4 OSCEs
End-semester	Theory	30%- 3 SAQs
	Practical/Clinical	40%- 06 OSCEs/OSPEs

Course No: DS 4203

Course title: Child and Adolescent Oral Health Care 4

Credits: 04

Pre-requisites: Should have followed all courses up to the end of 7th semester

Aims: This course aims to make the students competent in delivering oral health care to child and

adolescent patients. This also aims to empower them in decision making on referrals for tertiary

care.

Intended learning outcomes:

On successful completion of the course the students should:

- > Be able to assess, plan treatment and carry out basic and specified intricate treatment procedures in the management of common oral and dental diseases and conditions in children and adolescents and children with special health needs.
- > Be able to plan and provide basic treatment/interventions/advice for simple and local dental irregularities in child and adolescent patients
- > Be able to identify complex dental treatment needs of children and adolescents, and to make appropriate referral.

Time Allocation (Hours): Lectures: 15Clinical: 135 Self-learning: 50				
Lectures:	Hours			
1. Comprehensive dental care for children and adolescents and children with 5 special health care needs				
2. Fixed orthodontic appliances				
3. Role of the general dental practitioner in orthodontic practice2				
4. Interceptive orthodontics				
5. Case selection and management of patients with class II malocclusion with 1 simple removable appliances				
Total	15			
Clinical:				
1. Pharmacological approaches in the management of an anxious child				
 History taking and treatment planning for children with special health care needs 				
3. Management of children with dental caries, dental trauma, gingival diseas mucosal diseases and developmental dental anomalies	es, 135			
. Management of malocclusions with removable appliances				
. Management of malocclusions with functional appliances				
. Management of patients with interceptive orthodontics				
7. Fixed orthodontic appliances				
Total	135			

- 1. WR Proffit, HW Fields Jr. and DM Sarver. 2007. Contemporary Orthodontics. 4thed.
- 2. JO Andreasen et al. 2011. Traumatic Dental Injuries: A Manual. 3rded.
- 3. R Welbury et al. 2012. Paediatric Dentistry. 4thed
- 4. AC Cameran and RP Widmer. 2013. Handbook of Pediatric Dentistry. 4thed.

Assessment		Percentage Marks	
In-course		15%- Patient 1 15%- Patient 2 (Assessment and treatment planning of child patients with multiple treatment needs and carryout a given treatment procedure)	
End-semester	Theory	10% - 06 MCQs 20% - 02 SAQs	
	Practical	40% - 07 OSCEs/OSPEs	