

BACHELOR OF DENTAL SURGERY PROGRAMME

Semester 6



Faculty of Dental Sciences
University of Peradeniya
2026



Bachelor of Dental Surgery Programme

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CONTENTS

	Page
Introduction	1
6 th Semester Courses	3
1 DS3201 Population Oral Health 2.....	4
2 DS3202 Management of Adult Dental Diseases	6
3 DS3203 Clinical and Diagnostic Oral Sciences 2	8
4 DS3204 Child and Adolescent Oral Health Care 2	9

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 self-directed 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.

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: <ul style="list-style-type: none"> ➤ 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 Allocation (Hours):	Lectures: 15 Self-learning: 40 Clinical/Field work: 45
Lectures	Hours
1. Health education	1
2. Health promotion	1
3. Modes of action of fluoride and fluoride toxicity	1
4. Prevention of dental caries- Systemic fluoride therapy	1
5. Prevention of dental caries- Topical fluoride therapy	1
6. Prevention of dental caries-Fissure sealants	1
7. Diet, nutrition and oral disease	1
8. Prevention of oral cancer	1
9. Prevention of periodontal disease	1
10. Organization of health care delivery systems	1
11. Professionals complimentary to dentistry	1
12. Planning of oral health services including human resources	1
13. Introduction to health economics	1
14. Minimum intervention dentistry	1
15. Primary health Care	1
Total	15
Clinical/Field work	
1. Introduction to preventive Clinic	3
2. Preventive clinic	12
3. Preparation for School Dental Clinic (SDC), Hospital Dental Clinic (HDC) & General Dental Practice (GDP) visits	3
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
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Recommended References/ Prescribed Textbooks

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% - Oral Presentation
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:	
<ul style="list-style-type: none"> ➤ 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:	
Lectures:	Hours
1. Partially dentate patient assessment, treatment planning and treatment options	1
2. Occlusal and periodontal assessment of partially dentate patient	1
3. Introduction to removable partial dentures-classification and components	1
4. Principles of endodontics	1
5. Clinical and laboratory stages involved in removable prosthodontics	1
6. Endodontic diagnosis	1
7. Patient Assessment in endodontics	1
8. Clinical assessment and impression making in complete denture prosthodontics	1
9. Materials and instruments used in endodontics	1
10. Jaw relation registration and selection of teeth in complete denture prosthodontics	1
11. Periodontal re-evaluation	1
12. Occlusion and articulation in complete denture prosthodontics	1
13. Root canal morphology and canal configurations	1
14. Endodontic access and working length estimation	1
15. Root canal preparation using standard and rotary files	2
16. Periodontal diagnosis, prognosis and treatment planning for complex cases	1
17. Management of risk factors in periodontal diseases	1
18. Laboratory stages involved in complete denture construction	1
19. Try-in stage, denture insertion and review in complete denture prosthodontics	1
20. Obturation and obturation techniques	1
21. Complications in endodontics	1
22. Assessment of endodontically treated teeth	1
23. Systemic -periodontal interrelation and clinical considerations	1
24. Restoration of root filled teeth	1
25. Periodontal-endodontic lesions – diagnosis & prognosis	1

26. Treatment of periodontal-endodontic lesions	1
27. Occlusal factors and occlusal traumatism in periodontal 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	30
Clinicals:	
1. Management of adult partially dentate patients with removable partial dentures	45
2. Endodontic treatment on patients	45
3. Periodontal management of patients with mild to moderate degree of periodontitis	45
Total	135

Recommended References/ Prescribed Textbooks

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 Davenport. 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% - Impression making 20% - 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: <ul style="list-style-type: none"> ➤ 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, ➤ carry out complicated exodontia in patients. ➤ recognize emergencies in dental practice and take appropriate action on such situations. 	
Time Allocation (Hours):	Lectures:30 Clinical work:90 Self-learning:80
Course content:	
Lectures	Hours
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
Clinical	
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 imaging modalities in maxillo-facial region	10
Total	90

Recommended References/ Prescribed Textbooks

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. 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-clinical		30% - Clinical: Exodontia
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: <ul style="list-style-type: none"> ➤ 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):	Lectures:30 Clinical work: 45 Clinical demonstrations: 15 Self Learning:110
Lectures :	Hours
1. Dental trauma in children	3
2. Orthodontic tooth movement	2
3. Developmental dental anomalies in children	2
4. Basic principles of orthodontic treatment planning	4
5. Management of traumatic dental injuries	4
6. Management of developmental dental anomalies in children	5
7. Periodontal diseases in children	1
8. Methods of space gaining in orthodontic treatment	1
9. Extraction of teeth in orthodontics	1
10. Principles of removable appliances	4
11. Management of patients with removable appliances	3
Total	30
Clinical works:	
1. Management of patients with caries, dental trauma, developmental anomalies of teeth, periodontal disease and common mucosal lesions	45
2. Treatment planning of simple malocclusions and management with simple removable appliances	
Total	45
Clinical demonstrations	
1. Perform pulp sensibility test	1
2. Radiographic interpretation of traumatic dental injuries	2
3. Radiographic interpretation of developmental anomalies of teeth	2
4. Construction of removable appliances	10
Total	15

Recommended References/ Prescribed Textbooks

1. Handbook of Pediatric Dentistry (Fourth Edition), Angus C. Cameron and Richard P. Widmer.
2. Paediatric Dentistry Richard Welbury , 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.
5. 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% - Treatment planning of a child patient with common dental diseases 15% - Treatment planning of a patient with a simple malocclusion
End-semester	Theory	40% - 3 SAQs
	Practical	30% - 4 OSPEs/OSCEs

