

BACHELOR OF DENTAL SURGERY PROGRAMME

Semester 5



Faculty of Dental Sciences
University of Peradeniya
2026



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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 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.

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:			
<ul style="list-style-type: none"> ➤ 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: 165
Course content:			
Lectures:	Hour		
1. Local anaesthesia-armamentarium and techniques	1		
2. Plaque control methods	1		
3. Restoration with Amalgam	1		
4. Introduction and instruments in exodontia	1		
5. Introduction to behavior management strategies in children	1		
6. Prosthodontic considerations of the denture bearing area	1		
7. Aetiology of malocclusions	2		
8. Behavior management strategies in children	1		
9. Infections in the head and neck region	3		
10. Caries risk assessment	1		
11. Pathology of dental caries	1		
12. Periodontal assessment I & risk assessment	1		
13. Exodontia techniques	1		
14. Periodontal assessments II	1		
15. Principles of denture retention, support and stability	1		
16. Restoration with composites	1		
17. Direct veneers	1		
18. Assessment of malocclusions	1		
19. Complications of exodontia	1		
20. Atraumatic restorative technique in children	1		
21. Principles of jaw relations and dental articulators	3		
22. Classification of malocclusions	3		
23. Pulp therapy in the primary dentition	1		
24. Interpretation of Radiographs	1		
25. Hazards of radiation and radiation protection methods	1		
26. Aetiology of periodontal diseases (PDD)	1		
27. Pathogenesis of PDD	1		
28. Classification of PDD	1		
29. Features of artificial dentition	1		
30. Indices in Orthodontics	1		
31. Orthodontic case assessment	1		
32. Periodontal diagnosis & treatment planning	1		
33. Concepts and techniques of periodontal debridement	1		

34. Non-carious tooth substance 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
Practicals	
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

Recommended References/ Prescribed Textbooks

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 conditions- introduction 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		ICA 1 - 20%-Teeth setting ICA 2 - 20% - Periodontal debridement on a mannequin
End-semester	Theory	30%- 10 MCQs & 3 SAQs
	Practical	10% -Exodontia on a manikin 20% - 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: <ul style="list-style-type: none"> ➤ 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 Self-learning hours: 40 Clinical/Field Work: 45
Course content	
Lectures	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
Clinical/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

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% -3 EMQs
End-semester	Theory	60% - 4 SEQs
	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: <ul style="list-style-type: none"> ➤ 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 Allocation (Hours):	Clinical work: 90 Self Learning hours: 10
Course content	
Clinicals:	Hours
1. Management of a partially dentate adult with a simple partial denture	30
2. Basic restorations on patients	30
3. Periodontal assessments on patients	30
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	
Total	90

Recommended References/ Prescribed Textbooks

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
In-course		50%- History taking of a patient
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: <ul style="list-style-type: none"> ➤ 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 allocation (Hours):	Clinical work:90 Self-learning hours: 10
Clinicals:	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

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. 2nd ed.

Assessment		Percentage Marks
In-course		50% - Exodontia/ 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: <ul style="list-style-type: none"> ➤ 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 child patients with simple treatment needs	50
2. Basic orthodontic assessment and diagnosis of a child or adolescent patient with a malocclusion	40
Total	90

Recommended References/ Prescribed Textbooks

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		ICA 1 - 20%- A group presentation on caries risk assessment and caries prevention in a child patient ICA 2 - 20%-Case assessment and diagnosis of malocclusions
End-semester	Clinical	60% - 6 OSCEs

