

BACHELOR OF DENTAL SURGERY PROGRAMME

Semester 10



Faculty of Dental Sciences
University of Peradeniya
2025



Bachelor of Dental Surgery Programme

Course Book

Semesters 10

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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. The second phase provided the students thorough supervised hands-on clinical training in dentistry, enabling them to be adequately skilled to proceed to the third and the final phase of clinical training. This final phase aims to prepare the students to make rational decisions in clinical practice and for independent practice later as a General Dental Practitioner.

The ninth semester intends to introduce the students into clinical training through a holistic approach for patient care under the course, 'Comprehensive Oral Health Care 1' (COHC 1) [DS 5102]. COHC training will take place in a polyclinic set-up in Comprehensive Oral Health Care Clinic. The students will also advance their clinical skills training under 'Adult Oral Health Care' stream (AOH 3) [DS 5101], while they receive a good grasp on theoretical concepts and clinical exposure under the course 'Advanced Treatment Clinic 1' (ATC 1) [5103]. At the same time the students will execute a research project under the course 'Research Project' [5104] within the ninth semester. Students have already received the prerequisite knowledge and applications in research as they have completed a course in 'Basic Statistics and Research Methodology' during the 7th semester.

Upon successful completion of the requirements of the ninth semester, the students shall move to the tenth and the last semester in their BDS Study Programme where they will be further trained under four courses namely, Adult Oral Health Care 4 (AOH 4) [DS 5201], Comprehensive Oral Health Care 2 (COHC 2) [DS 5202], 'Advanced Treatment Clinic 2' (ATC 2) [5203] and a new course introduced to them on 'Maxillofacial Surgical Care' [5204] where they will receive a thorough training in maxillofacial surgical care for the training requirement as future House Officers.

Students are expected to follow all appointments diligently, as they should be competent and confident to practice dentistry more independently at the end of this final year of their BDS training.

10TH SEMESTER COURSES

Course No:	DS 5202	
Course title:	Comprehensive Oral Care 2	
Credit value:	6	
Pre-requisites:	Should have followed all courses up to the end of 9th semester	
Aims:	This course aims to help students establish a holistic, comprehensive and professional approach to patient care. They will also have an extended opportunity to carryout treatment of all common oral diseases/conditions inside one clinic simulating a General Dental Practice.	
Intended learning outcomes:	<p>On successful completion of learning the students should:</p> <ul style="list-style-type: none"> ➤ Be able to diagnose oral and dental disease conditions of a given child / adult patient ➤ Assess a patient's oral and dental treatment needs and prioritize them ➤ Draw up a comprehensive individualized and prioritized treatment plan for a patient, taking all relevant aspects in to consideration. ➤ Carryout the treatment, rehabilitation and secondary prevention of all common oral and dental conditions according to a planned schedule ➤ Keep accurate, comprehensive records of a patient's dental and oral treatment and oral condition, assess progress of treatment and improvement of his/her oral health ➤ Maintain professional standards, ethical conduct and demonstrate concern for the patient's best interest at all times. 	
Time Allocation (Hours):	Clinical 270	Self learning hours: 30
Course content:	<p>History taking, clinical examination, radiographic assessments & other relevant investigations, diagnosis and treatment planning with particular attention being paid to prioritizing and sequencing of treatment procedures. Carrying out common dental treatment, according to the stages in the treatment plan. Clinical record keeping. Writing comprehensive case reports. All these procedures would be for oral rehabilitation, health maintenance, as well as secondary preventive procedures at the level of a general dental practitioner.</p> <p>(Seminar programme – once a week on treatment planning, and discussion/presentation of case scenarios and portfolio writing).</p>	

Recommended References/ Prescribed Textbooks

1. J Lindhe. 2008. Clinical Periodontology and Implant Dentistry. 5th ed. /latest
2. Edited by M O'Sullivan. 2004. Fixed Prosthodontics in Dental Practice. 1st ed. /latest
- BS Chong. 2010. Harty's Endodontics in Clinical Practice. 6th ed. /latest

Assessment		Percentage Mark		
In-course		50%	20%	Grades obtained for Academic ability, Clinical ability & Professionalism
			15%	Assessment of a child patient suitable for GP level (middle of follow-up care) – History, assessments, diagnosis & Rx planning. Carry out a given treatment procedure (may include a simple orthodontic intervention)
			15%	Adult Patient - History, assessments, diagnosis & Rx planning. Carry out a given treatment procedure
End-semester	Clinical	50%	25%	Child patient – for a named preventive/treatment procedure
			25%	Geriatric patient (follow-up) – for a named treatment procedure [Final outcome of overall care]

Course No:	DS 5203
Course title:	Advanced Treatment Clinic 2
Credit value:	2
Pre-requisites:	Should have followed all courses up to the end of 9th semester
Aims: This course aims to make the students aware of the newer and more advanced procedures that may be employed in the treatment of complex dental and oral diseases and conditions.	
Intended learning outcomes: On successful completion of learning the students should be: <ul style="list-style-type: none"> ➤ Able to carry out molar endodontics and restore endodontically-treated teeth ➤ Able to plan and restore partially edentulous space with bridges or removable partial dentures ➤ Able to manage traumatized dentition ➤ Familiar with, and able to assist in clinical procedures such as implant-supported prostheses, maxillo-facial prostheses, specialized periodontal surgical procedures, indirect restorations and fixed orthodontic appliances ➤ Familiar with dental management of children and elderly patients with special health needs. 	
Time Allocation (Hours):	Clinical 90 Self learning hours: 10
Course content: Molar endodontics and restoration of endodontically treated teeth. Restoration of partially edentulous space with bridges / RPD. Management of traumatized dentition, Indirect Restorations, Geriatric Dentistry. Aesthetic periodontal surgery, Implants & implant-supported prostheses, maxillo-facial prostheses. Advancements in Orthodontics.	
Students should continue to maintain the log-book on all procedures/clinical activities under these courses, DS 5103 & DS 5203.	

Recommended References/ Prescribed Textbooks

1. J Lindhe. 2008. Clinical Periodontology and Implant Dentistry. 5th ed. /latest
2. H Wolf. 2014. Color Atlas of Dental Medicine. Periodontology. 3rd ed. /latest

Assessment		Percentage Mark	
In-course		20%	Discussion based on the logbook entries
End-semester	Practical/Clinical	80%	10 OSCEs/OSPEs

Course No: DS 5204 Course title: Maxillofacial Surgical Care Credit value: 4 Pre-requisites: Should have followed all courses up to the end of 9th semester		
Aim: The aim of this course is to provide the students an opportunity to learn in-ward care of patients, assisting in operation theatre and ward procedures/ ICU procedures and management of medical emergencies in a dental clinic.		
Intended learning outcomes: On successful completion of learning the students should be: <ul style="list-style-type: none"> ➤ Familiar with all routine ward, operating theatre and ICU procedures ➤ Competent in the immediate management of medical and dental emergencies ➤ Able to manage medical emergencies on a dental chair ➤ Able to carry out / assist in minor oral surgical procedures 		
Time Allocation (Hours): Clinical 180 Self learning hours: 20		
Course Content: Routine Ward, ICU and Theatre procedures and patient care: Pre-operative assessment in relation to surgery and anaesthesia, Preparation for the operation - history, examination and investigations, assisting in a surgical procedure, Recovery of patients, Post operative management, Discharge from the hospital. Medical and dental emergencies (Immediate management): Syncope, Acute respiratory, obstruction and arrest, (including anaesthetic emergencies), Acute chest pain, Cardiac arrest, Anaphylactic shock, Collapse of a patient with history of cortico-steroid therapy, Cerebro-vascular accidents, Fits, Asthmatic attacks, Drug reactions and interactions, Maxillofacial injuries, Haemorrhage, Inhaled foreign bodies.		
Details/Plan: Students will follow a rotation in the dental ward, operating theater, ICU, MOT and PCU/ accident and emergency units in teaching hospital Kandy and Peradeniya as indicated. Students are supposed to work during weekends and public holidays and engage in after-hours to be familiarized with routine of in-ward and emergency care. Students will be assigned to supervisors (OMF Surgeons and Anesthetists) and should have weekly discussions for feedback and reflection. A training on portfolio-writing shall be arranged.		
In-ward management of patents	1. In-ward team and ward routine 2. Admission and discharging a patient and follow up 3. Recording of history, examination details, ordering investigations, consent for the surgery 4. Systems examination 5. Prescribing medication rationally	60 hrs

	6. Pre and post-operative care including ward procedures – venepuncture, catheterization etc 7. Premedication 8. Documentation, consent, data protection and maintaining confidentiality, ethics and professionalism and communicating bad news 9. Infection control – surgical environment, hospital infections, MRSA, Hand hygiene 10. On call, Accident and emergency	
Operating theatre familiarization	1. OT team and routine 2. OT discipline 3. WHO check list 4. Scrubbing and gowning 5. Assisting in surgery 6. Familiarization with OT instruments 7. Post op recovery 8. Record keeping 9. Specimen handing	30 hrs
ICU	1. ICU team and routine 2. Equipment in the ICU 3. Principles of ICU Monitoring of patients	18 hrs
PCU	Familiarization with accident and emergency and basics of management of emergencies	24 hrs
MOT	Performing minor oral surgery under supervision, communication with patients, use of sedation in minor oral surgery, managing complications, record keeping and follow up of patients	48 hrs
Students will maintain a portfolio during this appointment with details of patients and procedures.		

Recommended References/ Prescribed Textbooks

1. TA Turvey, JR Scully, PD Whaite, BJ Costelo and RL Ruiz. 2009. Oral and Maxillofacial Surgery Volume I, II and III. 2nd ed. /latest
2. JR Hupp, E Ellis and MR Tucker. 2008. Contemporary Oral and Maxillofacial Surgery. 5th ed. /latest

Assessment			Percentage Mark
In-course		20%	20% - CPR
End-semester	Practical/Clinical	80%	Assessment 1 – (30%) – 04 OSCEs Assessment 2 – (50%) - Portfolio Viva