




Bharati Vidyapeeth (Deemed to be University), Pune
Faculty of Dentistry
Bachelor of Dental Surgery (BDS): Course Outcomes (COs)

Bachelor of Dental Surgery (BDS): List of Courses

Year/Semester	Course Title	Course Code
I	General Human Anatomy including Embryology & Histology	BDS 1.1
	General Human Physiology & Biochemistry, Nutrition and Dietetics	BDS 1.2
	Dental Anatomy, Embryology & Oral Histology	BDS 1.3
II	General Pathology & Microbiology	BDS 2.1
	General and Dental Pharmacology & Therapeutics	BDS 2.2
	Dental Materials Science	BDS 2.3
	Pre-clinical Conservative Dentistry	BDS 2.4
	Pre-clinical Prosthodontics & Crown and Bridge	BDS 2.5
	Environmental Studies	BDS 2.6
III	General Medicine	BDS 3.1
	General Surgery	BDS 3.2
	Oral and Maxillofacial Pathology & Oral Microbiology	BDS 3.3
IV-I	Orthodontics & Dentofacial Orthopaedics	BDS 4.1.1
	Oral Medicine & Radiology	BDS 4.1.2
	Public Health Dentistry	BDS 4.1.3
	Periodontology	BDS 4.1.4
IV-II	Oral & Maxillofacial Surgery	BDS 4.2.1
	Conservative Dentistry & Endodontics	BDS 4.2.2
	Prosthodontics & Crown and Bridge	BDS 4.2.3
	Paediatric & Preventive Dentistry	BDS 4.2.4



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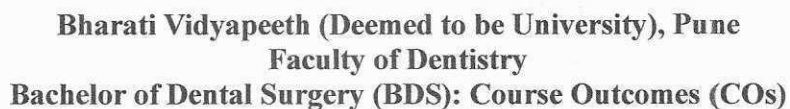


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Course Title:	General Human Anatomy including Embryology & Histology	Course Code:	BDS 1.1
Course Outcome Code	Course Outcome Statement <i>At the end of the course, first year BDS students</i>		
CO 1.1.1	Describe the structure and function of the gross anatomy of the human body.		
CO 1.1.2	Describe structural and functional correlation of histology of cells and tissues forming organ systems.		
CO 1.1.3	Identify the normal anatomical structures on cadavers, bones, microscopic anatomical sections and other media.		
CO 1.1.4	Explain the stages of human embryogenesis, formation of extra-foetal tissue and human development through a normal life cycle.		
CO 1.1.5	Correlate gross anatomy and embryology with developmental anomalies.		
CO 1.1.6	Apply knowledge of head and neck anatomy to the practice of dentistry.		
CO 1.1.7	Respect cadavers during dissection activity.		


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Course Title:	General Human Physiology & Biochemistry, Nutrition and Dietetics	Course Code:	BDS 1.2
Course Outcome Code	Course Outcome Statement <i>At the end of the course, first year BDS students</i>		
CO 1.2.1P	Understand the functional organization of the human body, homeostasis, functions and regulatory mechanisms of various physiological systems of human body relevant to dentistry.		
CO 1.2.2P	Understand the physiological basis of systemic dysfunctions.		
CO 1.2.3P	Apply knowledge of physiology to the practice of dentistry.		
CO 1.2.4P	Analyse and interpret the variations in blood cell counts.		
CO 1.2.5P	Record and interpret vital signs.		
CO 1.2.1B	Understand the molecular and functional organization of a cell and sub-cellular components.		
CO 1.2.2B	Understand the metabolism and role of macronutrients and micronutrients.		
CO 1.2.3B	Apply knowledge of biochemistry to the practice of dentistry.		

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Course Title:	Dental Anatomy, Embryology & Oral Histology	Course Code:	BDS 1.3
Course Outcome Code	Course Outcome Statement <i>At the end of the course, first year BDS students</i>		
CO 1.3.1	Understand the normal development, morphology, histology, structure, and functions of oral and para-oral tissues.		
CO 1.3.2	Are familiar with anatomical variations and anomalies of oral and para-oral tissues.		
CO 1.3.3	Understand the ageing process in the oral and para-oral tissues.		
CO 1.3.4	Use knowledge of development, morphology, histology, structure and functions of oral and para-oral tissues to the practice of dentistry.		
CO 1.3.5	Demonstrate advanced understanding of morphology of teeth.		

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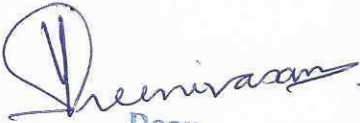
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Course Title:	General Pathology & Microbiology	Course Code:	BDS 2.1
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.1.1P	Understand various disease processes in terms of aetiology, pathogenesis, morphological changes in various organs, and their complications and functional implications.		
CO 2.1.2P	Identify various diseases based on their microscopic and macroscopic appearance and laboratory findings.		
CO 2.1.3P	Correlate pathogenesis with the signs and symptoms of diseases.		
CO 2.1.4P	Apply knowledge of pathology to the practice of dentistry.		
CO 2.1.1M	Understand the morphology, genetics, physiology, virulence, pathogenesis, laboratory diagnosis and prophylaxis of microbial pathogens.		
CO 2.1.2M	Understand principles and concepts of immunology.		
CO 2.1.3M	Understand the theoretical aspects, modes of transmission, pathogenesis, clinical implication and laboratory diagnosis of infections caused by viruses, fungi and parasites.		
CO 2.1.4M	Plan the safety measures for prevention of hospital cross infection and occupational exposures.		
CO 2.1.5M	Possess advanced understanding of asepsis precautions and sterilization and disinfection techniques relevant to practice of dentistry.		
CO 2.1.6M	Understand universal safety precautions for segregation and disposal of biomedical waste.		
CO 2.1.7M	Are aware of contemporary microbiological and immunological diagnostic techniques.		


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Course Title:	General and Dental Pharmacology & Therapeutics	Course Code:	BDS 2.2
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.2.1	Understand the pharmacokinetics and pharmacodynamics of commonly used drugs.		
CO 2.2.2	Understand drug interactions, adverse drug reactions and reporting of adverse drug reactions of commonly used drugs in dentistry.		
CO 2.2.3	Prescribe appropriate drugs, formulations and dosages for different oral diseases and manifestations with consideration to efficacy, safety and cost.		
CO 2.2.4	Understand the special care required while prescribing common drugs in special conditions.		
CO 2.2.5	Choose appropriate marketed preparations commonly used in dentistry by evaluating their formulation.		
CO 2.2.6	Are aware of responsible use of antimicrobials in dental practice.		

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Course Title:	Dental Materials Science	Course Code:	BDS 2.3
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.3.1	Understand composition, setting reaction, indications, contraindications, advantages, disadvantages, properties and technical considerations of dental materials.		
CO 2.3.2	Apply the knowledge of dental materials in different clinical and laboratory settings.		
CO 2.3.3	Manipulate impression materials, gypsum products, dental waxes, polymers, restorative materials and cements.		
CO 2.3.4	Are aware of recent advances in materials for use in dentistry.		

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Course Title:	Pre-clinical Conservative Dentistry	Course Code:	BDS 2.4
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.4.1	Understand need for restoring teeth.		
CO 2.4.2	Understand the classification and nomenclature of cavities and loss of tooth structure.		
CO 2.4.3	Possess procedural knowledge of various approaches in restorative dentistry.		
CO 2.4.4	Understand importance of pulp protection and materials used for pulp protection.		
CO 2.4.5	Explain the clinical considerations of intra-coronal dental materials in restorative dentistry.		
CO 2.4.6	Perform isolation techniques on simulators.		
CO 2.4.7	Perform dental restorative procedures on simulators.		

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Course Title:	Pre-clinical Prosthodontics & Crown and Bridge	Course Code:	BDS 2.5
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.5.1	Integrate the knowledge of the anatomy of edentulous arches while fabricating removable prosthesis.		
CO 2.5.2	Understand the concepts of occlusion in removable prosthodontics.		
CO 2.5.3	Describe the clinical and laboratory steps involved in fabrication of removable prosthesis.		
CO 2.5.4	Correlate the clinical procedures with the preclinical exercises.		
CO 2.5.5	Perform laboratory steps in fabrication of removable prosthesis.		


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Course Title:	Environmental Studies	Course Code:	BDS 2.6
Course Outcome Code	Course Outcome Statement <i>At the end of the course, second year BDS students</i>		
CO 2.6.1	Understand the importance of renewable and non-renewable resources, associated problems of the natural resources, and need for their conservation.		
CO 2.6.2	Understand different attributes of the ecosystem such as its structure, functions, producers, consumers, decomposers and energy flow.		
CO 2.6.3	Realize the importance of conservation of biodiversity at local, national and global level.		
CO 2.6.4	Recognize the sources of pollution and understand the need and methods to control them.		
CO 2.6.5	Possess basic understanding of the social context and legal acts pertaining to environmental issues.		
CO 2.6.6	Evince care while performing tasks which have a potential impact on the environment.		


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Course Title:	General Medicine	Course Code:	BDS 3.1
Course Outcome Code	Course Outcome Statement <i>At the end of the course, third year BDS students</i>		
CO 3.1.1	Understand etio-pathogenesis, clinical features, investigation and management of common health problems.		
CO 3.1.2	Apply knowledge of basic medical sciences and principles of internal medicine for assessment and diagnosis of patients.		
CO 3.1.3	Demonstrate knowledge of interactions and adverse effects of commonly prescribed drugs.		
CO 3.1.4	Are aware of common medical emergencies and their management.		
CO 3.1.5	Are aware of the oral manifestations of various systemic disorders.		

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Course Title:	General Surgery	Course Code:	BDS 3.2
Course Outcome Code	Course Outcome Statement <i>At the end of the course, third year BDS students</i>		
CO 3.2.1	Understand the principles, methods and need of sterilization and asepsis.		
CO 3.2.2	Apply the principles and methods of sterilization and asepsis in practice.		
CO 3.2.3	Understand the basic principles of surgery and operation theatre protocol.		
CO 3.2.4	Understand the common surgical conditions affecting skin, oral cavity and neck, and their investigations and treatment protocols.		
CO 3.2.5	Understand basic wound management.		
CO 3.2.6	Are aware of emergencies related to accidents, infections, trauma and surgery and their management.		
CO 3.2.7	Are aware of recent advances in surgical approaches, techniques and materials.		

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Course Title:	Oral and Maxillofacial Pathology & Oral Microbiology	Course Code:	BDS 3.3
Course Outcome Code	Course Outcome Statement <i>At the end of the course, third year BDS students</i>		
CO 3.3.1	Understand various disease processes in terms of aetiology, pathogenesis, morphological and histological changes in oro-facial tissues, and their clinical implications.		
CO 3.3.2	Correlate the knowledge of disease processes of oro-facial tissues with their clinical, laboratory and radiological manifestations.		
CO 3.3.3	Understand the oral manifestations and laboratory findings of systemic diseases.		
CO 3.3.4	Understand the microbiological diseases affecting oro-facial tissues.		
CO 3.3.5	Apply the knowledge of microbiological diseases affecting oro-facial tissues in their diagnosis, management and prevention.		
CO 3.3.6	Understand the role of a dentist in forensic identification.		


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Course Title:	Orthodontics & Dentofacial Orthopaedics	Course Code:	BDS 4.1.1
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.1.1.1	Understand growth and development of oro-facial structures and its role in Orthodontics and Dentofacial Orthopaedics.		
CO 4.1.1.2	Understand normal occlusion and different types of malocclusions with their aetiology.		
CO 4.1.1.3	Apply the theoretical aspects of dental and medical sciences in the practice of Orthodontics and Dentofacial Orthopaedics.		
CO 4.1.1.4	Assess and diagnose the orthodontic needs of patients.		
CO 4.1.1.5	Prepare an orthodontic treatment plan that includes aspects of preventive, interceptive, corrective and surgical orthodontics.		
CO 4.1.1.6	Perform basic wire-bending exercises and fabricate removable orthodontic appliances.		
CO 4.1.1.7	Prepare orthodontic models and analyse them for orthodontic problems in the mixed and permanent dentition.		
CO 4.1.1.8	Provide follow-up care to patients receiving orthodontic treatments.		
CO 4.1.1.9	Communicate effectively with patients, parents/guardians, healthcare professionals and laboratory personnel for better treatment outcomes.		
CO 4.1.1.10	Identify and refer to specialists complex orthodontic cases requiring advanced treatment approaches.		
CO 4.1.1.11	Apply principles of ethical and professional practice.		


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Course Title:	Oral Medicine & Radiology	Course Code:	BDS 4.1.2
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.1.2.1	Apply the theoretical aspects of dental and medical sciences relevant to the practice of Oral Medicine and Radiology.		
CO 4.1.2.2	Understand the need for various investigations in the diagnosis and management of dental, oral and maxillofacial diseases.		
CO 4.1.2.3	Assess and diagnose common diseases of the oral and para-oral region.		
CO 4.1.2.4	Propose a diagnosis-driven comprehensive-care treatment plan.		
CO 4.1.2.5	Apply principles of radiation physics, biology, image formation, projection geometry and techniques in dental radiography.		
CO 4.1.2.6	Prescribe appropriate dental and extra-oral radiographs as an aid in diagnosis and treatment planning.		
CO 4.1.2.7	Expose, process, mount, critique and interpret dental radiographs using radiation protection measures.		
CO 4.1.2.8	Understand the bidirectional relationship between oral and systemic health along with their oral and radiographic manifestations and dental considerations.		
CO 4.1.2.9	Communicate effectively with patients, caretakers/guardians and healthcare professionals.		
CO 4.1.2.10	Identify and refer to specialists complex cases requiring interdisciplinary approach.		
CO 4.1.2.11	Apply principles of ethical and professional practice.		

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Course Title:	Public Health Dentistry	Course Code:	BDS 4.1.3
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.1.3.1	Understand the principles, concepts, policies and approaches of public health dentistry.		
CO 4.1.3.2	Understand social determinants of health relevant to the practice of dentistry.		
CO 4.1.3.3	Assess the individual and community oral health status and needs using appropriate indices and tools and interpret the data.		
CO 4.1.3.4	Participate in epidemiological studies and oral health promotion activities at the community level.		
CO 4.1.3.5	Prepare preventive and promotive interventions that are aligned with the community needs and national oral health goals.		
CO 4.1.3.6	Deliver preventive and promotive services at individual and community level.		
CO 4.1.3.7	Engage with individuals, primary health workers, communities and governmental and non-governmental organizations for needs assessment, health promotion and preventive services.		
CO 4.1.3.8	Apply principles of ethical and professional practice as prescribed by the regulatory bodies.		

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Course Title:	Periodontology	Course Code:	BDS 4.1.4
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.1.4.1	Understand the anatomy, physiology and biochemistry of normal tooth supporting structures.		
CO 4.1.4.2	Understand aetiology, pathophysiology, clinical features, diagnostic methods and treatment modalities of all periodontal and peri-implant diseases.		
CO 4.1.4.3	Apply the theoretical aspects of dental and medical sciences in the practice of periodontics and implant dentistry.		
CO 4.1.4.4	Assess and diagnose common periodontal diseases.		
CO 4.1.4.5	Propose a diagnosis-driven comprehensive-care treatment plan.		
CO 4.1.4.6	Perform non-surgical periodontal therapy in a safe and ethically, legally and socially acceptable manner.		
CO 4.1.4.7	Perform post-therapy follow-up to monitor therapy outcome and maintenance of periodontal health.		
CO 4.1.4.8	Educate and motivate patients to prevent periodontal diseases.		
CO 4.1.4.9	Identify and refer to specialists patients requiring advanced periodontal therapies.		
CO 4.1.4.10	Apply principles of ethical and professional practice.		

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Course Title:	Oral & Maxillofacial Surgery	Course Code:	BDS 4.2.1
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.2.1.1	Apply principles, concepts, approaches and techniques of surgery and asepsis to exodontia and minor oral surgery.		
CO 4.2.1.2	Perform a comprehensive oral and maxillofacial clinical, radiological and laboratory assessment to establish a diagnosis.		
CO 4.2.1.3	Formulate a diagnosis-driven surgical treatment plan.		
CO 4.2.1.4	Are proficient in administration of local anaesthesia and exodontia with minimal trauma.		
CO 4.2.1.5	Manage post-extraction haemorrhage, socket closure and complications.		
CO 4.2.1.6	Assess and diagnose medical emergencies and perform lifesaving manoeuvres during emergency situations.		
CO 4.2.1.7	Communicate effectively with patients, care givers/guardians and other healthcare providers for better patient outcomes.		
CO 4.2.1.8	Provide primary management of trauma to oral and maxillofacial region.		
CO 4.2.1.9	Understand diagnosis and primary management of oro-facial space infections.		
CO 4.2.1.10	Are aware of perioperative surgical care for minor and major oral and maxillofacial surgical procedures.		
CO 4.2.1.11	Identify and refer to specialists patients requiring advanced surgical procedures.		
CO 4.2.1.12	Apply principles of ethical and professional practice.		

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Course Title:	Conservative Dentistry & Endodontics	Course Code:	BDS 4.2.2
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.2.2.1	Understand the basic concepts of etio-pathogenesis, diagnosis and management of dental caries, traumatic injuries, pulpal diseases and periapical diseases.		
CO 4.2.2.2	Assess and diagnose dental caries, traumatic injuries, pulpal diseases and periapical diseases.		
CO 4.2.2.3	Formulate a diagnosis-driven treatment plan to manage pulpal diseases and periapical diseases, and restore form, function and esthetics of teeth.		
CO 4.2.2.4	Understand the basic principles and concepts of tooth preparation, pulp protection, contact and contour to restore form, function and esthetics of teeth.		
CO 4.2.2.5	Understand the application of various instruments, apparatus and materials in restorative and endodontic procedures.		
CO 4.2.2.6	Perform common restorative procedures in various clinical situations in patients.		
CO 4.2.2.7	Use appropriate instruments, apparatus and dental materials in different clinical situations to restore form, function and esthetics of teeth.		
CO 4.2.2.8	Communicate effectively with patients, care givers/guardians and other healthcare providers for better patient outcomes.		
CO 4.2.2.9	Identify and refer to specialists patients requiring advanced restorative and endodontic procedures.		
CO 4.2.2.10	Apply principles of ethical and professional practice.		
CO 4.2.2.11	Are aware of the advances in restorative and endodontic techniques and materials.		

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Course Title:	Prosthodontics & Crown and Bridge	Course Code:	BDS 4.2.3
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.2.3.1	Apply the theoretical aspects of dental and medical sciences in the practice of prosthodontics and implant dentistry.		
CO 4.2.3.2	Assess and diagnose the prosthodontic needs of patients.		
CO 4.2.3.3	Prepare a prosthodontic treatment plan for completely and partially edentulous patients.		
CO 4.2.3.4	Enlist various treatment options in implant dentistry for tooth replacement.		
CO 4.2.3.5	Understand the application of various instruments, equipment and materials in prosthodontic procedures.		
CO 4.2.3.6	Replace missing teeth with conventional complete and removable interim partial prostheses.		
CO 4.2.3.7	Provide follow-up care to patients receiving prostheses.		
CO 4.2.3.8	Communicate effectively with patients, care takers and oral health team, including laboratory personnel for better treatment outcomes.		
CO 4.2.3.9	Identify and refer to specialists complex prosthodontic cases requiring advanced or interdisciplinary approach.		
CO 4.2.3.10	Are aware of the advances in prosthodontic techniques and materials.		
CO 4.2.3.11	Apply principles of ethical and professional practice.		

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Course Title:	Paediatric & Preventive Dentistry	Course Code:	BDS 4.2.4
Course Outcome Code	Course Outcome Statement <i>At the end of the course, fourth year BDS students</i>		
CO 4.2.4.1	Apply the theoretical aspects of dental and medical sciences in the practice of Paediatric and Preventive Dentistry.		
CO 4.2.4.2	Assess and diagnose dental and oro-facial conditions in children from infancy through adolescence including those with special health care needs.		
CO 4.2.4.3	Prepare a comprehensive treatment plan for preventive and therapeutic needs of paediatric dental patients.		
CO 4.2.4.4	Prescribe medicines with appropriate dosages to children for dental and oro-facial conditions.		
CO 4.2.4.5	Manage child behaviour using non-pharmacological methods to perform treatment in an effective and efficient manner and inculcate a positive dental attitude in children.		
CO 4.2.4.6	Perform simple restorative procedures, exodontia and preventive measures.		
CO 4.2.4.7	Provide follow-up care to children receiving dental treatments.		
CO 4.2.4.8	Communicate effectively with patients, parents/guardians and healthcare professionals and laboratory personnel for successful treatment outcomes.		
CO 4.2.4.9	Identify complex conditions requiring interdisciplinary approach and refer them to specialists.		
CO 4.2.4.10	Apply principles of ethical and professional practice.		

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