

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO, PEO & CO

Programme: Bachelor of Dental Sciences

Programme Code: 011

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Program Educational Objectives (PEO)

Course Outcomes (CO)



Approved in 23rd ACM (Resolution 23.05) held on 15th July 2021

Registrar
M.S. Ramaiah University of Applied Sciences
Bangalore - 560 054

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Faculty of Dental Surgery (FDS)

Programme Name: BDS (Bachelor of Dental Surgery)

Programme Outcomes (POs)

BDS graduates will be able to:

- PO-1.** Acquire knowledge on the development, structure and function of the stomatognathic system both in health and disease and to relate their effect to the general state of health of the patient³
- PO-2.** Diagnose and manage various common dental problems encountered in general dental practice and demonstrate competence in pain control and anxiety management during dental treatment
- PO-3.** Perform and interpret required investigative procedures
- PO-4.** Select appropriate diagnostic or treatment methods based on scientific inference to solve oral health problems
- PO-5.** Participate as a team member, in the implementation of interdisciplinary treatmentsolutions and National Health Programmes
- PO-6.** Empathize with the needs of the individual patient and the community and worktogether to bring about a positive change in society
- PO-7.** Establish dental practice to meet the oral health needs of the society within the norms of environmental safety
- PO-8.** Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life
- PO-9.** Cope in various situations, irrespective of the different cultures or constraints involved and develop leadership skills by means of interaction with peers and leaders within and outside the University
- PO-10.** Present posters, papers in National and International forums
- PO-11.** Conduct research projects and experiments to solve complex oral health problems
- PO-12.** Develop an attitude to seek lifelong learning to update knowledge and professional skills



Programme Specific Outcomes (PSOs)

At the end of the BDS (Bachelor of Dental Surgery) programme, the graduate will be able to:

- PSO -1. Attain strong foundation in basic and applied medical and dental sciences to enable them to appraise oral health in the context of general health
- PSO-2. Efficiently diagnose and treat common dental problems encountered in general dental practice
- PSO-3. Keep abreast with recent advances in materials, technology, drugs and treatment approaches to ensure global standards of health care for the well-being and welfare of society
- PSO-4. Imbibe strong human values and social, interpersonal and leadership skills required for professional success in evolving global professional environments

Program Educational Objectives (PEOs)

The objectives of the Bachelor of Dental Surgery Programme are to:

- PEO-1. Apply knowledge of the development, structure and function of the teeth, oral cavity, jaws and associated tissues both in health and disease to restore oral and general health
- PEO-2. Diagnose and manage various common dental problems encountered in general dental practice.
- PEO-3. Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.
- PEO-4. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.

Course Outcomes (COs)

Course Title & Code: General Human Anatomy including Embryology, Osteology and Histology (BDC101A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe macroscopic and microscopic anatomy of head and neck region
- CO-2. Describe normal development of organs and identify congenital abnormalities
- CO-3. Demonstrate anatomical structures of the head and neck region and discuss their geographical and spatial orientation while according value and respect to the cadaver
- CO-4. Interpret normal anatomy in radiographs, CT, MRI of head and neck
- CO-5. Sketch the topography of anatomical structures on a cadaver
- CO-6. Analyse anatomical structures with relevance to their normal functions and pathological aspects in case of diseases



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Course Outcomes (COs)

Course Title & Code: General Human Physiology (BDC102A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss normal functions of different organ systems
- CO-2. Analyse functioning of different organ systems and their abnormalities
- CO-3. Apply standard protocols to diagnose and manage diseases seen in routine practice
- CO-4. Perform routine hematological investigations with empathy towards Courses
- CO-5. Perform routine practical examination with good interpersonal skills essential for practice of dentistry
- CO-6. Appraise the relevance of hematological tests to assess prognosis

Course Outcomes (COs)

Course Title & Code: Biochemistry (BDC103A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe metabolic processes
- CO-2. Describe biochemical basis of diseases
- CO-3. Perform quantitative tests on human samples and interpret the results
- CO-4. Perform routine hematological investigations with empathy towards Courses
- CO-5. Interpret a case report based on the biochemical findings
- CO-6. Suggest probable line of management of diseases

Course Outcomes (COs)

Course Title & Code: Dental Anatomy, Embryology and Oral Histology (BDC104A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the morphology, embryology and function of human dentitions and oral tissues.
- CO-2. Explain the principles of operation of light microscopes, tissue sectioning and staining
- CO-3. Discuss the histological structure of tooth and oral tissues
- CO-4. Carve the morphology of human dentition with Wax blocks
- CO-5. Distinguish stages of human dentition
- CO-6. Evaluate possible approaches to study a tissue sample or a specimen



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Course Outcomes (COs)

Course Title & Code: General Pathology (BDC201A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss cause, pathogenesis, morphology and the relevant investigations aiding diagnosis of disease
- CO-2. Describe methods of collection and handling of practical samples from patients
- CO-3. Interpret and integrate pathological and practical findings for establishing a diagnosis
- CO-4. Perform complete urine examination and detect abnormal constituents
- CO-5. Perform basic hematological procedures and develop interpersonal and communication skills for ethical multidisciplinary approach in health care
- CO-6. Appraise the advances in diagnostics for understanding pathogenesis of disease with special reference to oral diseases

Course Outcomes (COs)

Course Title & Code: Microbiology (BDC202A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the mechanism of host parasite relationship
- CO-2. Discuss etiology, pathogenesis, practical manifestations & diagnosis of infectious diseases with special reference to oral lesions
- CO-3. Explain the selection, collection and transport of appropriate samples for processing and interpret the results ethically and with empathetic interpersonal skills towards patients
- CO-4. Demonstrate the use of aseptic procedures and universal precautions
- CO-5. Perform simple laboratory tests for diagnosing infections
- CO-6. Evaluate the manipulation of host parasite relationship to alter disease mechanism

Course Outcomes (COs)

Course Title & Code: Dental Pharmacology and Therapeutics (BDC203A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe pharmacokinetics, pharmacodynamics, indications, contraindications, adverse drug reactions and interactions of drugs used in general and dental practice
- CO-2. Choose appropriate drugs for specific disease conditions and special situations with emphasis on efficacy & safety
- CO-3. Prepare and dispense commonly used medicinal preparations in dental and medical practice
- CO-4. Prescribe appropriate drugs in common dental and medical conditions based on sound clinical rationale



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- CO-5. Critically analyze fixed dose combinations of marketed drugs, identify adverse drug reactions and interactions of commonly used drugs in dental practice.
- CO-6. Collate, analyze and organize information related to recent advances in dental pharmacology and therapeutics

Course Outcomes (COs)

Course Title & Code: Dental Materials (BDC204A)

After the successful completion of this course, the student will be able to:

- CO-1. Classify dental materials according to their classes, functions and uses
- CO-2. Differentiate characteristics of each material, with technical guidelines for manipulation and identify consequences of improper handling
- CO-3. Choose appropriate materials and allied equipment according to their clinical application
- CO-4. Demonstrate handling and manipulation of dental materials efficiently and safely
- CO-5. Evaluate physical, mechanical and biological implications of recently developed dental materials.
- CO-6. Evaluate testing methods and standards of dental materials in a laboratory and clinical setting.

Course Outcomes (COs)

Course Title & Code: Preclinical Prosthodontics (BDC205A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe anatomy and physiology of the aging jaw
- CO-2. Differentiate partially edentulous conditions and design a removable prosthesis
- CO-3. Describe principles of teeth selection and occlusion for an ideal completely edentulous situation
- CO-4. Fabricate complete dentures by manipulation of dental materials
- CO-5. Prepare complete denture prosthesis applying principles of teeth arrangement
- CO-6. Demonstrate use of equipment and instruments related to removable prosthesis fabrication

Course Outcomes (COs)

Course Title & Code: Preclinical Conservative (BDC206A)

After the successful completion of this course, the student will be able to:

- CO-1. Demonstrate knowledge and understanding of the biomaterial science and technology relevant to restorative dentistry



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- CO-2. Explain the various causes and sequel of loss of tooth structure
- CO-3. Select the appropriate restorative instruments and manipulate materials for restoration of teeth
- CO-4. Apply the fundamental principles involved in the preparation and restoration of teeth
- CO-5. Perform technical procedures related to restorative dentistry on simulators
- CO-6. Demonstrate use of basic endodontic instruments and materials in extracted teeth

Course Outcomes (COs)

Course Title & Code: General Medicine (BDC301A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe systemic diseases with dental implications
- CO-2. Compare and contrast signs and symptoms of systemic diseases, infections, hematological disorders, nutritional disorders, critical care and drug reactions
- CO-3. Distinguish systemic diseases by visual and physical examination of organ systems
- CO-4. Recommend and justify appropriate investigations for differential diagnosis of diseases with empathy and compassion for patients' needs
- CO-5. Plan appropriate treatment with a multidisciplinary approach.
- CO-6. Explain management protocol of medical emergencies encountered in dental practice

Course Outcomes (COs)

Course Title & Code: General Surgery (BDC302A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe evolution, clinical features, diagnosis and management of common surgical ailments
- CO-2. Discuss the clinical features, diagnosis and management of head and neck diseases
- CO-3. Elicit clinical history and demonstrate clinical examination of Ulcer and swellings with empathy and compassion
- CO-4. Demonstrate the use of appropriate instrumentation in surgical management of diseases
- CO-5. Recommend and justify appropriate surgical management protocols for diseases
- CO-6. Evaluate advances in diagnostics and biomedical equipment in surgical management of head and neck diseases



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Course Outcomes (COs)

Course Title & Code: Oral Pathology and Microbiology (BDC303A)

After the successful completion of this course, the student will be able to:

- CO-1. Identify, classify and describe different forms of diseases affecting the oral and para oral structures.
- CO-2. Discuss etiopathogenesis of diseases of oral cavity.
- CO-3. Demonstrate the use of a light microscope independently to identify specific histopathological features on slides to distinguish morphological and functional changes associated with different pathological processes.
- CO-4. Interpret the findings of routine clinical and pathological investigations.
- CO-5. Analyse the impact of pathophysiological processes on cells, tissue and organs to correlate with clinical presentation.
- CO-6. Evaluate the possible approaches for the diagnosis of oral diseases.

Course Outcomes (COs)

Course Title & Code: Oral Medicine and Radiology (BDC401A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe clinical signs and symptoms of common oral and mucosal diseases.
- CO-2. Explain differential diagnosis of various oral conditions
- CO-3. Interpret and report radiographic findings
- CO-4. Perform clinical examination of head and neck with compassion and empathy, recommend appropriate investigations and develop a treatment plan
- CO-5. Perform various intraoral radiographic techniques / exercises
- CO-6. Analyse oral and systemic clinical and radiographic findings to differentially diagnose and suggest management protocols

Course Outcomes (COs)

Course Title & Code: Pedodontics and Preventive Dentistry (BDC402A)

After the successful completion of this course, the student will be able to:

- CO-1. Assess growth and development of craniofacial region as well as overall aspects of the child
- CO-2. Diagnose and explain clinical manifestations of common oral diseases affecting teeth and supporting tissues of children through adolescence including those with special health care needs
- CO-3. CO-3. Categorise instruments and techniques for various procedures for oral rehabilitation
- CO-4. Justify the best treatment option and deliver it in the most efficient manner based on evidence based dentistry



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- CO-5. Analyse the behaviour of children both in clinical setup and otherwise, to inculcate positive dental attitude
- CO-6. Deliver effective comprehensive, preventive and therapeutic paediatric dental treatment

Course Outcomes (COs)

Course Title & Code: Public Health Dentistry (BDC403A)

After the successful completion of this course, the student will be able to:

- CO-1. Differentiate between a clinician and a public health dentist
- CO-2. Describe health care delivery systems and propose a plan to establish an independent private dental practice
- CO-3. Perform preventive procedures and impart health education at an individual and community level
- CO-4. Analyse the data obtained from individual patient and community to arrive at treatment and programme.
- CO-5. Plan and provide comprehensive oral health care to individual patient
- CO-6. Demonstrate leadership qualities while organizing community programme

Course Outcomes (COs)

Course Title & Code: Orthodontics and Dental Orthopedics (BDC404A)

After the successful completion of this course, the student will be able to:

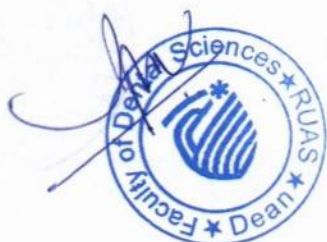
- CO-1. Describe the growth and development of craniofacial structures
- CO-2. Differentiate between normal occlusion and deviations and its etiology
- CO-3. Prepare orthodontic study models and perform model analysis
- CO-4. Interpret the clinical, model, radiographic and cephalometric analysis to diagnose skeletal and dental malocclusions. Plan an appropriate preventive, interceptive and corrective treatment to the patient valuing their concerns
- CO-5. Construct an orthodontic treatment plan for a patient having cleft lip and palate from birth to maturity
- CO-6. Fabricate removable orthodontic appliances for simple orthodontic corrections

Course Outcomes (COs)

Course Title & Code: Oral and Maxillofacial Surgery (BDC405A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the surgical anatomy of oral and maxillofacial region
- CO-2. Diagnose diseases, deformities and injuries of the oral and maxillofacial region



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- CO-3. Propose medical and surgical treatment options based on clinical history, examination and investigations with appropriate use of pharmacological agents
- CO-4. Perform tooth extraction with appropriate local anesthetic technique and instruments following basic surgical principles
- CO-5. Modify treatment plan for medically compromised patients, recognise medical emergencies and refer appropriately for further management
- CO-6. Display supportive role in minor and major surgical procedures with empathy and compassion

Course Outcomes (COs)

Course Title & Code: Periodontology (BDC406A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe etiology and pathogenesis of common periodontal diseases
- CO-2. Correlate biochemical, microbiologic, immunologic and genetic aspects of periodontal pathology and its interrelationship with various systemic conditions
- CO-3. Analyse clinical history, examine compassionately, advise appropriate diagnostic tests and motivate patient for maintenance regimen
- CO-4. Differentially diagnose, correlate systemically and propose a treatment plan
- CO-5. Demonstrate adequate skills in using periodontal instruments and equipment
- CO-6. Evaluate newer developments in material science and methods to justify its clinical applications in periodontal therapy.

Course Outcomes (COs)

Course Title & Code: Prosthodontics Includ. Crown & Bridge (BDC407A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe biomechanics of rehabilitation of the edentulous patients
- CO-2. Analyse treatment options for the edentulous patient with tooth/ implant supported restoration
- CO-3. Diagnose, develop a treatment plan, and execute the same for rehabilitation of the partially edentulous patient with a removable/ fixed prosthesis with empathy and compassion
- CO-4. Diagnose, develop a treatment plan, and execute the same for rehabilitation of the completely edentulous patient with a removable prosthesis with empathy and compassion
- CO-5. Diagnose and recommend esthetic prosthetic restorative procedures for rehabilitation of the maxillofacial & aesthetically compromised patient
- CO-6. Integrate multidisciplinary approach in treatment planning for optimum prosthodontic rehabilitation



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Course Outcomes (COs)

Course Title & Code: Conservative Dentistry and Endodontics (BDC407A)

After the successful completion of this course, the student will be able to:

- CO-1. Explain the disease process involving dental hard tissue and its sequelae
- CO-2. Describe bio-material science and instrumentation related to Restorative dentistry and Endodontics
- CO-3. Choose appropriate diagnostic and clinical techniques to restore form, function and aesthetics of the tooth based on fundamental principles
- CO-4. Diagnose Endodontic pathology and perform simple Endodontic treatment with compassion and concise post-operative care
- CO-5. Develop a preventive protocol for diseases of pulp
- CO-6. Plan evidence based management of clinical diseases

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Oral Medicine and Radiology (BDI401A)

After the successful completion of this course, the student will be able to:

- CO-1. Perform basic diagnostic procedures used in Oral Medicine and Radiology
- CO-2. Outline treatment planning options for simple cases
- CO-3. Perform simple intraoral and extraoral radiographic procedures
- CO-4. Provide tobacco cessation counseling and pharmacotherapy for tobacco users

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Periodontology (BDI402A)

After the successful completion of this course, the student will be able to:

- CO-1. Diagnose and outline the appropriate treatment plan for periodontal disease in a given patient.
- CO-2. Perform non-surgical procedures effectively in the management of periodontal diseases
- CO-3. Perform under supervision minor surgical procedures effectively in the management of periodontal diseases
- CO-4. Observe and assist complex surgical procedures performed under local anesthesia like Frenectomy, Gingivectomy, Flap Surgery, Regenerative Procedures and Rehabilitation with Dental Implants



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Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Pedodontics and Preventive Dentistry (BDI403A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the oral health problems and its manifestations in children from infancy through adolescence.
- CO-2. Plan comprehensive treatment for children with oral health problems

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Prosthodontics incl. Crown and Bridge (BDI404A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss treatment plan to rehabilitate the partially edentulous patient using a multidisciplinary approach.
- CO-2. Fabricate removable prosthesis. (Complete denture and Removable partial prosthesis)
- CO-3. Demonstrate clinical steps for anterior and posterior single and multi-unit fixed prosthodontics.
- CO-4. Explain the significance of implants in rehabilitation of missing teeth and recommend appropriate investigations required for the same.

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Comprehensive Oral Health Care (BDI405A)

After the successful completion of this course, the student will be able to:

- CO-1. Develop a comprehensive diagnosis and treatment plan incorporating historical, laboratory, radiographic and clinical findings of the patient
- CO-2. Provide comprehensive oral health care to patient
- CO-3. Establish therapeutic alliance between the patient and care provider
- CO-4. Maintain a patient record system that facilitates the retrieval and analysis of the process and outcomes of patient treatment
- CO-5. Practice and promote the principles of jurisprudence, professionalism and ethics in the practice of dentistry and in relationships with patients, personnel and colleagues



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Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Conservative Dentistry & Endodontics (BDI406A)

After the successful completion of this course, the student will be able to:

- CO-1. Choose appropriate diagnostic and clinical techniques to restore form, function and aesthetics of the tooth based on fundamental principles
- CO-2. Diagnose Endodontic pathology and perform simple Endodontic treatment with compassion and concise post-operative care
- CO-3. Plan evidence based management of clinical diseases

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Orthodontics & Dentofacial Orthopedics (BDI407A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss basic diagnostic procedures and treatment planning options in orthodontics
- CO-2. Fabricate removable orthodontic appliances for simple orthodontic corrections

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Oral & Maxillofacial Surgery (BDI408A)

After the successful completion of this course, the student will be able to:

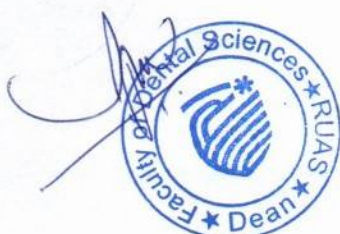
- CO-1. Discuss underlying principles of history taking, diagnosis and treatment planning protocols for basic oral surgical procedures with special consideration for medically compromised patients and patients undergoing radiotherapy.
- CO-2. Perform simple minor surgical procedures like surgical extractions, soft tissue impactions, biopsies, Alveoloplasty, incision & drainage, cyst enucleation
- CO-3. Demonstrate basic skills in management of dental emergencies like toothache, post extraction bleeding & bleeding due to trauma, dislocation of the mandible, dento alveolar fractures.
- CO-4. Perform Resuscitation procedures following a posting in the emergency department

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship - Oral Pathology & Microbiology (BDI109A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss biopsy, tissue processing, staining and reporting of oral pathologic lesions
- CO-2. Perform oral exfoliative cytology procedure & blood examination



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Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Accident & Emergency Medicine (BDSCRI110)

After the successful completion of this course, the student will be able to:

- CO-1. Check for functioning of all body systems
- CO-2. Demonstrate basic skills in management of medical and dental emergencies
- CO-3. Perform Resuscitation procedures following a posting in the emergency department
- CO-4. Perform basic suturing, IV Cannulation and parenteral routes of drug administration

Course Outcomes (COs)

Course Title & Code: Compulsory Rotatory Internship – Rural Posting (BDI411A)

After the successful completion of this course, the student will be able to:

- CO-1. Expose students to the social determinants of the rural settings, so as to render the services with prime empathy and compassion
- CO-2. Appraise the lifestyle issues and problems encountered at the rural settings of an individual
- CO-3. Develop and participate in the cost effective strategy for Oral Health promotion at individual level and community at large
- CO-4. Collect and analyze the oral health status data of school children using appropriate tool
- CO-5. Assist in research projects by data collection and data entry
- CO-6. Demonstrate leadership qualities while organizing different community programmes

Course Outcomes (COs)

Course Title & Code: Law for Dental Professionals (BDF101A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe the structure and functioning of legal system of India
- CO-2. Differentiate between various laws relevant to dentistry
- CO-3. Identify clinical situations that pose ethical dilemma to be resolved with sound ethical principles
- CO-4. Apply principles of professionalism in the practice of dentistry
- CO-5. Communicate effectively with patients, colleagues and public to instill a positive dental attitude
- CO-6. Prepare plan of action in case of litigation against the doctor.



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Course Outcomes (COs)

Course Title & Code: Basic Life Support (BDF201A)

After the successful completion of this course, the student will be able to:

- CO-1. Describe and demonstrate effective cardio pulmonary resuscitation with automatic external defibrillator use for adults and children with 1 rescuer and 2 rescuers.
- CO-2. Describe and demonstrate effective cardio pulmonary resuscitation for infants with 1 rescuer and 2 rescuers.
- CO-3. Differentiate between adult, child and infant rescue techniques.
- CO-4. Demonstrate rescue breathing for adult, child and infant
- CO-5. Demonstrate bag mask technique for adult, child and infant
- CO-6. Demonstrate relief of choking for adult, child and infant

Course Outcomes (COs)

Course Title & Code: Patient Safety Course (BDF301A)

After the successful completion of this course, the student will be able to:

- CO-1. Communicate effectively with patients and Dental Health Care Personnel and to respond to patients using non scholastic soft skills (verbal and non-verbal cues) including adverse events
- CO-2. Elicit proper case history before administering any drug and handle the situation in case of adverse drug reaction.
- CO-3. Identify the possible causes of machine errors and avoid them
- CO-4. Identify medical emergencies and manage these complications
- CO-5. Apply principles of Infection control while providing care
- CO-6. Segregate dental health care waste into appropriate bins

Course Outcomes (COs)

Course Title & Code: Community Orientation Programme (BDF302A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss significance of societal relevance and compassionate attitude in health care profession
- CO-2. Identify determinants of health and disease in different community settings
- CO-3. Describe health care delivery systems
- CO-4. Communicate effectively with stake holders
- CO-5. Conduct survey to collect data and analyse it for planning collaborative community health programs
- CO-6. Recognise and acknowledge cooperation extended by the community towards the learning experience

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Course Outcomes (COs)

Course Title & Code: Practice Observership (BDF401A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss various managerial areas in Private Dental Practice
- CO-2. Discuss various legislations governing Private Dental Practice
- CO-3. Propose a plan for "My Dream Dental Clinic"

Course Outcomes (COs)

Course Title & Code: UG Group Research/ Project (BDR301A)

After the successful completion of this course, the student will be able to:

- CO-1. Recognize the need for conducting the research project through an organized survey of literature
- CO-2. Describe the methodological steps to be adopted for the research project
- CO-3. Execute the research project
- CO-4. Write a technical report and prepare a poster as per the given specifications
- CO-5. Present the research project in an appropriate forum

Course Outcomes (COs)

Course Title & Code: Management of Oral Mucosal Lesions (BDE401A)

After the successful completion of this course, the student will be able to:

- CO-1. Record case history relevant to the oral mucosal lesions
- CO-2. Prescribe necessary investigations to aid in diagnosis
- CO-3. Develop an appropriate treatment protocol for oral mucosal lesions
- CO-4. Discuss recent trends and innovations in management of mucosal lesions

Course Outcomes (COs)

Course Title & Code: Basic Principles of CBCT in Dental Implants (BDE402A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the principles of CBCT Imaging
- CO-2. Discuss Strengths and Limitations of CBCT
- CO-3. Demonstrate the Clinical considerations for CBCT application
- CO-4. Perform Dental Implant Site Assessment for Simple case using CBCT



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Course Outcomes (COs)

Course Title & Code: Lasers in Periodontology (BDE403A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the concepts and applications of Lasers in Periodontics
- CO-2. Demonstrate the application of laser on simulated model
- CO-3. Assist surgical procedures performed using lasers
- CO-4. Perform basic surgical procedure using lasers

Course Outcomes (COs)

Course Title & Code: Periodontal Surgery for Clinician (BDE404A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the general principles for periodontal surgery
- CO-2. Select patients for minor periodontal surgery
- CO-3. Demonstrate different incisions and suturing techniques on models
- CO-4. Perform minor periodontal surgeries

Course Outcomes (COs)

Course Title & Code: Hospital Pediatric Dentistry (BDE505A)

After the successful completion of this course, the student will be able to:

- CO-1. Assess patients based on risk benefit ratios for oral rehabilitation under general anesthesia
- CO-2. Discuss the concepts of hospital pediatric dentistry
- CO-3. Co-ordinate with the hospital for operation theatre protocols
- CO-4. Assist for oral rehabilitation under general anesthesia

Course Outcomes (COs)

Course Title & Code: Pediatric Comprehensive Oral Rehabilitation (BDE606A)

After the successful completion of this course, the student will be able to:

- CO-1. Plan comprehensive treatment based on caries risk assessment
- CO-2. Select appropriate restorative material for rehabilitation
- CO-3. Provide endodontic treatment in primary teeth
- CO-4. Rehabilitate children with severe early childhood caries



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Course Outcomes (COs)

Course Title & Code: Introduction to Implantology (BDE707A)

After the successful completion of this course, the student will be able to:

- CO-1. Explain the role and significance of an implant in the replacement of missing teeth
- CO-2. Communicate the importance of implant replacement to patients.
- CO-3. Suggest appropriate diagnostic aids and investigations.
- CO-4. Prepare the patient to receive an implant

Course Outcomes (COs)

Course Title & Code: Basics of Fixed Partial Dentures (BDE708A)

After the successful completion of this course, the student will be able to:

- CO-1. Demonstrate pre- clinical steps for anterior and posterior single and multi- unit fixed prosthodontics
- CO-2. Propose treatment plan to rehabilitate the partially edentulous patient using a multidisciplinary approach
- CO-3. Demonstrate clinical steps for anterior and posterior single and multi-unit fixed prosthodontics
- CO-4. Deliver the simple single and multi-unit FPDs to the patient

Course Outcomes (COs)

Course Title & Code: Aesthetic Dentistry (BDE909A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the principles of aesthetic rehabilitation
- CO-2. Explain Basic Concepts of Adhesion
- CO-3. Demonstrate direct anterior and posterior aesthetic restorations on models
- CO-4. Perform direct anterior and posterior aesthetic restorations and Tooth Whitening procedures on patients

Course Outcomes (COs)

Course Title & Code: Practice Based Endodontics (BDE410A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the fundamental concepts of endodontic instrumentation
- CO-2. Select endodontic instruments and materials for the given case
- CO-3. Demonstrate canal instrumentation and obturation on extracted premolar
- CO-4. Perform root canal treatment on patients while managing pain and infection



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Course Outcomes (COs)

Course Title & Code: Private Practice Management (BDE411A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the considerations for location, type and design for setting dental practice
- CO-2. Discuss the facets of practice organization
- CO-3. Suggest strategies for equipment and inventory management
- CO-4. Suggest strategies for marketing and pricing in dental practice

Course Outcomes (COs)

Course Title & Code: Data Analysis in Health Care Research (BDE412A)

After the successful completion of this course, the student will be able to:

- CO-1. Demonstrate proficiency in using data analysis tools
- CO-2. Select statistical tests relevant to type of data
- CO-3. Analyse the given data using statistical tools
- CO-4. Present the obtained data in appropriate presentation methods and interpret

Course Outcomes (COs)

Course Title & Code: Surgical Extraction of Teeth (BDE413A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the indications and underlying principles in the surgical extraction of teeth.
- CO-2. Select cases for open extraction based on clinical and radiological assessment.
- CO-3. Demonstrate the techniques of surgical removal of teeth.
- CO-4. Manage the complications related to surgical removal of teeth.

Course Outcomes (COs)

Course Title & Code: Management of Medically Compromised Patients (BDE414A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the importance of case history in medically compromised patients.
- CO-2. Develop treatment protocols specific to each medically compromised condition.
- CO-3. Demonstrate the management of any given medically compromised patient.
- CO-4. Apply management protocols for dental treatment in medically compromised patients.



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Course Outcomes (COs)

Course Title & Code: Orthodontics for General Practitioners (BDE415A)

After the successful completion of this course, the student will be able to:

- CO-1. Discuss the importance of case history, investigations in arriving at orthodontic diagnosis
- CO-2. Interpret the case history and investigation for orthodontic referral
- CO-3. Counsel patients for receiving Orthodontic treatment
- CO-4. Perform preliminary dental care prior to orthodontic therapy

Course Outcomes (COs)

Course Title & Code: Preventive Orthodontics (BDE416A)

After the successful completion of this course, the student will be able to:

- CO-1. Explain the need, significance of preventive orthodontic therapy
- CO-2. Identify clinical and radiographic indicators for early orthodontic treatment
- CO-3. Choose from various preventive procedures depending on the requirement of the case.
- CO-4. Design an appliance for space maintenance in case of early loss of deciduous teeth and justify the choice of appliance for space maintenance

Course Outcomes (COs)

Course Title & Code: Routine Tissue Processing (BDE417A)

After the successful completion of this course, the student will be able to:

- CO-1. Explain the various methods of tissue processing
- CO-2. Prepare tissue sample for microscopic analysis and interpretation
- CO-3. Perform an appropriate staining technique for studying biological tissue specimens for microscopic study
- CO-4. Suggest remedies for troubleshooters during tissue processing

Course Outcomes (COs)

Course Title & Code: Exfoliative Cytology in Pathologic diagnosis (BDE418A)

After the successful completion of this course, the student will be able to:

- CO-1. Explain the principles of exfoliative cytology and their diagnostic applications
- CO-2. Prepare cytological smears for oral pathological lesions
- CO-3. Perform appropriate special staining procedure for diagnosis
- CO-4. Interpret and diagnose the underlying pathologic condition



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