



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Sree Siddaganga University of Health Sciences, Bangalore &
Recognized by Dental Council of India, New Delhi

MEDICAL AND DENTAL SUBJECT OUTCOMES

GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY

Course Outcomes:

- CO1: Students should be able to demonstrate and appreciate the structures of head & neck.
- CO2: Students should understand the embryology and histology of the different structures of head and neck region.
- CO3: The students should know the applied aspects of structures of head and neck.

GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY, NUTRITION DIETICS

Course Outcomes:

- CO1: List the functions of various organ systems of human body and the pathophysiology of all the disorders.
- CO2: Explain pathophysiology of common diseases like hypertension, diabetes and endocrinal disorders and physiological basis of treatment of various diseases.
- CO3: To understand the biochemical changes at molecular level in health and disease and their clinical consequences.
- CO4: Knowledge of different types of vitamins and their deficiency manifestations and biochemical basis of diseases.
- CO5: Understand in detail about digestion, absorption and metabolism of carbohydrates, lipids and proteins.

DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Course outcome:

- CO1: To describe morphological features of primary and permanent teeth, its chronology, sequence of eruption, occlusion, function of each tooth and its abnormalities.
- CO2: To understand development of orofacial structures and teeth in particular and its applied aspects.
- CO3: To know various properties of dental tissues, their microscopic features, physiology, age changes and applied aspects.
- CO4: To appreciate macroscopic features, various functions of orofacial tissues and variations in dental anatomy.
- CO5: To understand basic concepts regarding lab techniques of hard and soft tissue specimen.

GENERAL PATHOLOGY AND MICROBIOLOGY

Near PDA Engg. College, Nagaraha II Road, KALABURAGI - 585 102 KARNATAKA INDIA.

Phone : 08472 227510, 227022 Fax : 229587 | albadar_glb@yahoo.co.in

S. S. S. S.

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Al-Badar Rural Dental College
& Hospital, KALABURAGI



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Course Outcomes:

- CO1: To acquire knowledge of medical ailments of their clinical consequence and appreciate the interaction of body response to different types of medical manifestations.
- CO2: To familiarize with the pathologies that effect human body.
- CO3: Acquire the knowledge of immune reactions and different types of hypersensitivity reactions.
- CO4: To know the different types of Bacteria, viruses, fungi and parasites , infections caused by them and their laboratory diagnosis.
- CO5: To acquire the knowledge of sterilization techniques and vaccinations in dental practice.

GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

Course Outcomes:

- CO1: Explain pharmacological basis of prescribing medication in compromised medical situations such as pregnancy, lactation, infancy and old age.
- CO2: Describe the pharmacokinetics and pharmacodynamics of essentials and commonly used drugs in general and dental pharmacology.
- CO3: Acquire practical knowledge of rational use of medications in clinical practice

DENTAL MATERIALS

Course Outcomes:

- CO1: To identify setting time and working time of impression materials
- CO2: To know the manipulation and curing of self cure and heat cure acrylic resins
- CO3: To study setting time and working time of dental cements

GENERAL MEDICINE

Course Outcomes:

- CO1: The students should be able to examine and understand the general and clinical methods of body examination.
- CO2: The student should be familiar with the respective ailments of different body system and recognizing the ailment and effective treatment plan for the same.

GENERAL SURGERY

Course Outcomes:

- CO1: The student should be Knowledgeable about the various investigations & differential diagnosis before final treatment plan.

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**Al-Badar Rural Dental College
& Hospital, KALABURAGI**

Near PDA Engg. College, Naganahalli Road, KALABURAGI - 585 102 - KARNATAKA, INDIA

Phone: 08472 226610-220222 Fax: 220637 | albadar_glb@yahoo.com



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- CO2: The student should have acquired knowledge how to identify & consider the pathological aspects of any case and have sound critical reasoning for management & determining the prognosis.

ORAL PATHOLOGY AND MICROBIOLOGY

Course Outcomes: Undergraduate

- CO1: Describe the pathological processes that involve the oral cavity with their clinical manifestations and differential diagnosis.
- CO2: Discuss teeth abnormalities with the help of specimens and plaster casts.
- CO3: Discuss the oral manifestations of systemic diseases co-relating with physical signs and lab findings.
- CO4: Histopathological evaluation of diseases affecting oral and maxillofacial region
- CO5: Describe the various methods used in forensic odontology.

Course Outcomes: Postgraduate

- CO1: Basic knowledge of anatomy, histology, biochemistry, physiology pathology, microbiology of oral and para-oral structures including biostatistics and research methodology.
- CO2: Understand the pathological processes of oral diseases, compare and diagnose based on clinical, radiological and histopathological findings including molecular aspects.
- CO3: Basic knowledge on laboratory chemicals and equipments and they should be able to perform the preparation of ground sections, oral smears and histology slides including advanced techniques.
- CO4: Student should be able to identify and diagnose the diseases based on microscopy and write a report on oral diseases /lesion.
- CO5: Student should have knowledge on basic hematological tests and its clinical significance.
- CO6: Understand the various method of identification in forensic odontology.

ORAL MEDICINE AND RADIOLOGY

Course Outcomes: Undergraduate

- CO1: To know significance of case history recording, develop skills in extra oral and intra oral examination, local examination, build provisional diagnosis, investigations, final diagnosis, prognosis and formulate treatment plan.
- CO2: Theoretical, clinical and practical knowledge of all mucosal lesions, oral cancer, infections, TMJ disorders, Orofacial pain, cysts and tumors, oral manifestations of systemic diseases, syndromes, maxillofacial trauma, diagnostic procedures pertaining to them and latest

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Phone - 08472 227610, 220222

Fax: 229537 | albadar_glb@

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S. J. Baka
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information of imaging modules, evidence based management, dental considerations and management of medically compromised patients

- CO3: To understand the basics of radiation physics, effects of radiation on living tissues, radiation safety measures, X-ray films, accessories like grids, screen use and function, concept of manual and digital processing, principles of projection and understand and perform various intra-oral radiographic techniques

Course Outcomes: Postgraduate

- CO1: Comprehensive knowledge and understanding of the applied anatomy of the face, oral cavity, head and neck, the physiology and biochemistry, pathology and microbiology, and the pharmacologic applications including research methodology and biostatistics.
- CO2: Proficiency in general physical examination of the patient, detailed examination of the oral and para-oral structures through established standard protocols by evaluation of dental and medical history, systemic examination identification of pathologies through chair side and advanced investigations, diagnosis, prevention and evidence based management.
- CO3: Outline the principles clinical and radiographic aspects of Forensic odontology.
- CO4: Develop research skills in handling scientific problems pertaining to oral treatment, Didactic skills in encouraging younger doctors to attain learning objectives
- CO5: Understanding and knowledge of, ionizing radiation, its applications in dentistry, biologic effects, protective measures, principles and procedures involved in conventional and advanced imaging of head and neck for diagnosing oral and maxillofacial disorders through systematic radiographic interpretation and drafting of report.

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

Course Outcome: Undergraduates

- CO1: Define Orthodontics, process of normal growth and development of dentition and associated craniofacial structures. Differentiate the abnormality in the growth process in dental, skeletal and soft tissues of the craniofacial region and discuss their clinical implications.
- CO2: Describe the aims and objectives of orthodontic treatment and design the treatment for preventive, interceptive and corrective procedures.
- CO3: Demonstrate the skills to make upper and lower dental arch impressions, prepare the study casts, perform model analyses and interpret the results, demonstrate effective communication skills for interactions with patients as well as professional peers. Recognize the apprehension and psychological status of the patient/parents having orthodontic problems.

Near PDA Engg. College, Naganahalli Road, KALABURAGI - 585 102 - KARNATAKA, INDIA.

Phone: 08172-227610, 220222 Fax: 229687 | albadar_glb@yahoo.co

S. J. B. B. B.

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Course Outcome: Postgraduate

- CO1: Knowledge of applied basic science, prenatal and postnatal growth of head, bone growth, assessment of growth, muscles of mastication, development of dentition and occlusion. applied physiology, genetics and physical anthropology.
- CO2: Applied research methodology about experimental design, animal experimental protocol, principles in the development, execution and interpretation of methodologies in orthodontics, critical scientific appraisal of literature and biostatistics.
- CO3: The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment and factors affecting the long stability of orthodontic correction and their management.
- CO4: Develop skills to obtain proper clinical history, methodical examination of the patient, perform essential diagnostics procedures, and interpret them and arrive at a reasonable diagnosis about the dento-facial deformities.

PAEDIATRIC AND PREVENTIVE DENTISTRY


Course Outcome: Undergraduate

- CO1: Identification & differentiation of primary and permanent teeth clinically and radiographically and its numbering system.
- CO2: Distinguish between various stages of common oral diseases and describe the growth and development of a child in terms of physical, behavioral emotional and intelligence.
- CO3: Management of child behavior in dental clinic and instill positive dental attitude in child.
- CO4: Formulate a preventive treatment strategy for dental caries and management of emergency traumatic injuries in children.
- CO5: Design appliance for orthodontic procedures in children and identification of victims of child abuse and neglect.

PROSTHODONTICS AND CROWN AND BRIDGE

Course Outcomes: Undergraduate

- CO1: Adequate knowledge of dental materials based on their properties and uses.
- CO2: Perform all preclinical exercises to facilitate entry to clinics.
- CO3: Acquire knowledge of necessary clinical and lab procedure
- CO4: Learn required skills and technique to diagnose and restore /replace missing oral associated structures


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Course Outcomes: Postgraduate

- CO1 : Understanding of basic sciences relevant to prosthodontic specialty.
- CO2 : Prepare for a career in teaching, specialty practice and research.
- CO3 : Capable of restoring missing/lost oral and associated structures with either removable, fixed, dental implants or maxillofacial prostheses .
- CO4 : Develop competence in research and its methodology as related to prosthodontics.
- CO5 : Update contemporary scientific knowledge and techniques by attending /participating in courses and conference.

CONSERVATIVE DENTISTRY AND ENDODONTICS

Course Outcomes: Undergraduate

- CO1: Identify and manipulate different restorative materials.
- CO2: Diagnose cases and manage cavity preparation and restoration in patients independently in clinical postings
- CO3: Diagnose the conservative /endodontics cases.
- CO4: Organize the clinical setting independently.

Course outcomes: Postgraduate

- CO1: Describe aetiology, pathophysiology, periapical diagnosis and management of restorative, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathoses including periodontal situations and recognize conditions that may require multi-disciplinary approach outside the realm of the specialty and able to recognize and refer to appropriate specialist.
- CO2: Perform all levels of restorative work, surgical and non-surgical endodontics including periapical surgeries, management of avulsed tooth, endodontic endosseous implants, pulp regenerative techniques as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition using contemporary techniques and methods.
- CO3: Update himself/herself by self-study and by attending basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry& Endodontics, Dental Materials and Restorative Dentistry
- CO4: Use information technology tools and carry out research both basic and clinical with the aim of publishing his/her work and presenting the same at scientific platform.
- CO5: Provide basic life-saving support in emergency situations.

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA, INDIA.

Phone : 08472 - 227610, 229222 Fax : 225687 | albadar.edu@gmail.com

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CO6: Ability to teach, guide, colleagues, and other students.

ORAL AND MAXILLOFACIAL SURGERY

Course Outcomes: Undergraduate

- CO1: Acquire knowledge and understanding of etiology, patho-physiology, diagnosis and treatment planning of various oral and maxillofacial surgical problems.
- CO2: Understand the general surgical principles, including pain management.
- CO3: Acquire knowledge of infection control, prevention of cross infection and hospital waste management.
- CO4: Learn to examine a patient and record blood pressure, use of different instruments and different injection techniques.
- CO5: Learn extraction of mobile and firm teeth; as well as trans-alveolar extraction of root stumps and surgical removal of simple impacted teeth, management of dento-alveolar fractures with arch bar fixation, eyelets and inter-maxillary fixations

Course Outcomes: Postgraduate

- CO1: Understand basic sciences relevant to practice of oral and maxillofacial surgery.
- CO2: Learn to obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpret them and to arrive at a reasonable diagnosis about the surgical condition.
- CO3: Acquire adequate knowledge and understanding of the etiology, patho-physiology, diagnosis and treatment planning of various common oral and maxillofacial surgical problems, both minor and major in nature.
- CO4: Understand the general surgical principles of pre and postsurgical management, particularly evaluation, postsurgical care, fluid and electrolyte management, blood transfusion and postsurgical pain management.
- CO5: Perform with competence minor oral surgical procedures and common maxillofacial surgical problems. To treat both surgically and medically (or by other means of the oral and maxillofacial and the related area).
- CO6: Acquire essential knowledge of infection control, prevention of cross infection and safe disposal of hospital waste to prevent the spread of Hepatitis and HIV.
- CO7: Develop attitude to adopt ethical principles in all aspects of surgical practice. Professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA, INDIA

Phone : 08472 - 227610, 220232 Fax : 2296871 albadar

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PERIODONTOLOGY

Course outcomes: Undergraduate

- CO1: Describe and diagnose periodontal diseases and conditions.
- CO2: Identify the relationship between the periodontal diseases and the various medical conditions.
- CO3: Differentiate between different periodontal diseases
- CO4: Instruct the patient on how to maintain proper periodontal health

Course outcomes: Postgraduate

- CO1: Should have a basic knowledge on research methodology, biostatistics and be able to apply it in various research projects as well as dissertations.
- CO2: Should have a understanding on the normal structure of periodontium and the contributing etiological factors resulting in the pathogenesis of periodontal diseases and be able to apply this knowledge in the diagnosis.
- CO3: Should be able to record indices and plan out epidemiological survey to assess the prevalence and incidence of early onset periodontitis and adult periodontitis in Indian Population.
- CO4: Should have an updated knowledge on the recent advancements and be able to modify their treatment accordingly.
- CO5: Should be aware of the various designs and placement of oral implants and follow up of implant restorations.
- CO6: Should be knowledgeable to provide clinical care for patients with complex problems that are beyond the treatment skills of general dentist and demonstrate evaluative and judgment skills in making appropriate decision regarding prevention, correction and referral to deliver comprehensive care to patients.

PUBLIC HEALTH DENTISTRY

Course Outcome: Undergraduate

- CO1: At the conclusion of the course the student shall have a knowledge of the basis of public health, preventive dentistry, public health problems in India, nutrition, environment and their role in health, basics of dental statistics, epidemiological methods, National oral health policy with emphasis on oral health policy.
- CO2: The students shall have the skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding health

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strategies. Students should develop a positive attitude towards the problems of the society and must take responsibilities in providing health.

- CO3: At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral diseases.


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