



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

Affiliated to Sri. Gandhi University of Health Sciences, Bangalore &  
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**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**

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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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- 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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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.

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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.

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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.

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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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### PROSTHODONTICS

**Aim:** To train dental graduates so as to ensure higher competence in both general and special area of Prosthodontics and prepare a candidate for teaching, research and clinical abilities including prevention and after care in prosthodontics including crown and bridge and implantology.

#### General Objectives of the Course:

- © Training programme in Prosthodontic dentistry including Crown & Bridge & Implantology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills, and ability to research with understanding of social, cultural, education and environmental background of the society
- © To have acquired adequate knowledge and understanding of applied basic and systematic medical science knowledge in general and particular to head and neck.
- © The postgraduates will be able to provide Prosthodontic therapy for patients with competence and working knowledge with understanding of applied medical behavioral and clinical science that are beyond the treatment skills of the general BDS graduate and MDS graduate of other specialities to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment aftercare and referral to deliver comprehensive care to patients.

#### Knowledge

The candidate should possess knowledge applied basic and systematic medical sciences.

- © On human anatomy, embryology, histology, applied in general and particular to head and neck, Physiology & Biochemistry, Pathology and microbiology, virology, Health and diseases of various systems of the body (systemic) principles in surgery and medicine, Pharmacology, Nutrition, behavioral Science, Age changes, genetics, Immunology, Congenital defects and syndrome and Anthropology, Bioengineering, Bio-medical and Biological Principle and application Dental material science
- © Ability to diagnose and planned treatment for patients requiring a Prosthodontic therapy
- © Ability to read and interpret a radiograph and other investigations for the purpose of diagnoses treatment plan
- © Tooth and tooth surface restorations, Complete denture prosthodontics, removable partial dentures Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants supported Prosthodontics, T.M.J, and occlusion, craniofacial esthetic, and biomaterials. Craniofacial disorders - problems of psychogenic origin.
- © Age changes and Prosthodontic Therapy for aged.

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- © Ability to diagnose failed restoration and provide Prosthodontic therapy and after care.
- © Should have essential knowledge on ethics, laws and Jurisprudence and forensic odontology in Prosthodontics
- © General health conditions and emergency as related to prosthodontics treatment,
  - © Identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
  - © Identify cases, which are outside the area of his speciality/ competence and refer them to appropriate specialists.
- © Advice regarding case management involving surgical, interim treatment etc.
- © Competent specialization in team management of craniofacial design.
- © Should attend continuing education programmes, seminars and conferences related to prosthodontics in thus updating himself.
- © Teach and guide his / her team, colleague and other students.
- © Should be able to use information technology tools and carry out research basic and clinical, with the aims of publishing his/ her work and presenting work at various scientific forum.
- © Should have essential knowledge of personal hygiene, infection control, prevent of cross infection and safe disposal of waste, keeping in view the risks of transfer of Hepatitis & HIV
- © Should have an ability to plan to establish Prosthodontic clinic/hospital teach, department and practice management
- © Should have a sound knowledge for the application of pharmacology. Effects drugs on oral tissue and systems of a body and for medically compromised.

### Skills

- © The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiography, diagnose the ailment, plan a treatment, communicate it with the patient and execute it.
- © Understand the prevalence and prevention of diseases of craniomandibular system related to Prosthetic dentistry.
- © The candidate should be able to restore the lost functions of the stomatognathic system namely speech, mastication etc to provide a quality health care for craniofacial region
- © The candidate should be able to interact with other speciality including a medical speciality for a planned team management of patients for a craniofacial and oral acquired and

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congenital defects, Temporomandibular joint syndromes, esthetics, Implant supported  
Prosthetics and problems of Psychogenic origin,

© Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area.

© Identify target diseases and awareness amongst the population for Prosthodontic therapy.

© Perform clinical and Laboratory procedure with understanding of biomaterials, tissue conditions related to prosthesis and have competent dexterity and skill for performing clinical and laboratory procedures in fixed, removable, implant and maxillofacial TMJ, esthetics Prosthodontics.

© Laboratory technique management based on skills and knowledge of Dental Materials and dental equipment and instruments, management.

© To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontic including crown & bridge and implantology.

#### **Attitudes**

© Adopt ethical principles in all Prosthodontic practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.

© Willing to share the knowledge and clinical experience with professional colleagues.

© Willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which is in patient's best interest.

© Respect patient's rights and privileges including patients right to information and right to seek second opinion.

#### **Communication Abilities**

© Develop communication skills, in particular, to explain treatment option available in management.

© Provide leadership and get the best out of his group in a congenial working atmosphere.

© Should be able to communicate in simple understandable language with the patient and explain the principles of prosthodontics to the patient. He should be able to guide and counsel the patient with regard to various treatment modalities available.

© Develop the ability to communicate with professional colleagues through various media like Internet, e-mail, video conference, etc. to render the best possible treatment.

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### PERIODONTICS

#### Objectives

The following objectives are laid out to achieve the goals of the course Knowledge

- © Discuss historical perspective to advancement in the subject proper and related topics
- © Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population
- © Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology
- © Describe various preventive periodontal measures
- © Describe various treatment modalities of periodontal disease from historical aspect to currently available ones
- © Describe interrelationship between periodontal disease and various systemic conditions
- © Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it
- © Identify rarities in periodontal disease and environmental/ Emotional determinates in a given case
- © Recognize conditions that may be outside the area of his Speciality/competence and refer them to an appropriate Specialist
- © Decide regarding non-surgical or surgical management of the case
- © Update him by attending course, conferences and seminars relevant to periodontics or by self-learning process.
- © Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his work in scientific journals
- © Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated
- © Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise)
- © Shall develop knowledge, skill in the science and practice of Oral Implantology
- © Shall develop teaching skill in the field of Periodontology and Oral Implantology

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### SKILL

- ©Take a proper clinical history, thorough examination of intra orally, extra orally, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis
- ©Effective motivation and education regarding periodontal disease maintenance after the treatment
- ©Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment
- ©Perform both non-surgical and surgical procedures independently
- ©Provide Basic Life Support Service (BLS) recognizes the need for and advance life support and does the immediate need for that.

### Human values, ethical practice to communication abilities

- © Adopt ethical principles in all aspects of treatment modalities, Professional honesty & integrity are to be fostered Develop, adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered. Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, Be humble, accept the limitations in his knowledge and skill, and ask for help from colleagues when needed, Respect patient's rights and privileges, including patients right to information and right to seek a second opinion.

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## ORAL AND MAXILLOFACIAL SURGERY

### Objectives:

The training program in Oral and Maxillofacial Surgery is structured to achieve the following four objectives-

- © Knowledge
- © Skills
- © Attitude
- © Communicative skills and ability

### Knowledge:

- © To have acquired adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature.
- © To have understood the general surgical principles like pre and post surgical management, particularly evaluation, post surgical care, fluid and electrolyte management, blood transfusion and post surgical pain management.
- © Understanding of basic sciences relevant to practice of oral and maxillofacial surgery.
- © Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.
- © Essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

### Skill

- © 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.
- © To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically (or by other means of the oral and Maxillofacial and the related area).
- © Capable of providing care for maxillofacial surgery patients.

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### Attitude:

- © Develop attitude to adopt ethical principles in all aspect 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.
- © Willing to share the knowledge and clinical experience with professional colleagues.
- © Willing to adopt new and techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient
- © Respect patient right and privileges, including patients right to information and right to seek a second opinion.
- © Develop attitude to seek opinion from an allied medical and dental specialists as and when required.

### Communication skills:

- © Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time
- © Develop the ability to communicate with professional colleagues.
- © Develop ability to teach undergraduates.

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## CONSERVATIVE DENTISTRY

### Objectives

The following objectives are laid out to achieve the goals of the course. These are to be achieved by the time the candidate completes the course. These objectives may be considered under the following subtitles.

### Knowledge

At the end of 36 months of training, the candidates should be able to:

- © Describe aetiology, pathophysiology, periapical diagnosis and management of common restorative situations, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathoses including periodontal situations.
- © Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics.
- © Identify social, economic, environmental and emotional determinants in a given case or community and take them into account for planning and execution at individual and community level.
- © Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.
- © Update himself by self-study and by attended basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry- Endodontics-Dental Materials and Restorative Dentistry.
- © Ability to teach, guide, colleagues and other students. Use information technology tools and carry out research both basic and clinical with the aim of his publishing his work and presenting the same at scientific platform

### Skills

- © Take proper chair side history, exam the patient and perform medical and dental diagnostic procedures and order as well as perform relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry - Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post operative care of the patient.

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© Perform all levels of restorative work and surgical and non-surgical Endodontics including endodontic endosseous implants, as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition.

© Provide basic lifesaving support in emergency situations.

© Manage acute pulpal and pulpo periodontal situations.

© Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.

### Human Values, Ethical Practice and Communication Abilities

© Adopt ethical principles in all aspects of restorative and contemporary Endodontics" including non-surgical and surgical Endodontics.

© Professional honesty and integrity should be the top priority.

© Dental care has to be provided regardless of social status, caste, creed or religion of the patient.

© Develop communication skills- in particular to explain various options available management and to obtain a true informed consent from the patient.

© Apply high moral and ethical standards while carrying on human or animal research. He / She shall not carry out any heroic procedures and must know his limitations in performing all aspects of restorative dentistry including Endodontics. Ask for help from colleagues or seniors when required without hesitation O Respect patient's rights and privileges including patients right to information.

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## **ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS**

**Objectives** The training programme in Orthodontics is to structure and achieve the following four objectives Knowledge of

1. The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment
2. The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems
3. Various treatment modalities in Orthodontics preventive interceptive and corrective.
4. Basic sciences relevant to the practice of Orthodontics
5. Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro - facial deformities
6. Factors affecting the long-range stability of orthodontic correction and their management
7. Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases.

### **Skills**

1. To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dentofacial deformities.
2. To be competent to fabricate and manage the most appropriate appliance - intra or extra oral, removable or fixed, mechanical or functional, and active or passive - for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of orofacial deformities.

### **Attitudes:**

1. Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.
2. Professional honesty and integrity are to be fostered
3. Treatment care is to be delivered irrespective of the social Status, cast, creed or colleagues
4. Willingness to share the knowledge and clinical experience with professional colleagues
5. Willingness to adopt, after a critical assessment, new methods and techniques of orthodontic management developed from time to time based on scientific research, which are in the best interest of the patient

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6. Respect patients rights and privileges, including patients right to information and right to seek a second opinion

7. Develop attitude to seek opinion from allied medical and dental specialists as and when required

### Communication skills

1. Develop adequate communication skills particularly with the patients giving them various options available to manage a particular Dentofacial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.

2. Develop the ability to communicate with professional colleagues, in Orthodontics or other specialities through various media like correspondence, Internet, e-video, conference, etc. To render the best possible treatment.

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### ORAL PATHOLOGY AND MICROBIOLOGY

#### Objectives:

© To train a post graduate dental surgeon so as to ensure higher competence in both general and special pathology dealing with the nature of oral diseases, their causes, processes and effects.

© An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra structural investigations.

© He/she is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval systems, referencing and skill in writing scientific papers.

© He/she is expected to present scientific data pertaining to the field, in conferences both as poster and verbal presentations and take part in group discussions.

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### Ph.D. LEARNING OUT COMES

PHD GRADUATE COMPETENCY	DESCRIPTION
DEPTH AND BREADTH OF KNOWLEDGE	Able to independently undertake pure or applied research and professional skills at an advanced level and translate knowledge to research or practice settings. A thorough understanding of a substantial body of knowledge with expertise in a specialized field that is at the forefront of an academic discipline or area of professional practice.
CONCEPTUAL AWARENESS AND/OR KNOWLEDGE OF RESEARCH	A conceptual understanding and methodological competence that provides the graduate with the ability to: <ul style="list-style-type: none"><li>• conceptualize, design, and implement research for the generation of new knowledge, applications, or understanding at the forefront of the discipline and to adjust the research design or methodology in the light of unforeseen problems.</li><li>• make informed judgments on complex issues in specialist fields, sometimes requiring new methods.</li><li>• produce original research, or other advanced scholarship, of a quality to satisfy peer review, and to merit publication.</li></ul>
APPLICATION OF KNOWLEDGE	The capacity to: <ul style="list-style-type: none"><li>• undertake pure and/or applied research at an advanced level, and</li><li>• contribute to the development of academic or professional skill, techniques, tools, practices, ideas, theories, approaches, and/or materials.</li></ul>
AWARENESS OF LIMITS OF KNOWLEDGE	An appreciation of the limitations of one's own work and discipline, of the complexity of knowledge, and of the potential contributions of other interpretations, methods, and disciplines.
COMMUNICATIONS SKILLS	The ability to communicate complex and/or ambiguous ideas, issues, and conclusions clearly and effectively.

  
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KNOWLEDGE	DESCRIPTION
	<p>1. Depth and Breadth of Knowledge – Students will be able to independently undertake pure or applied research and professional skills at an advanced level and translate knowledge to research or practice settings. Students will demonstrate a thorough understanding of a substantial body of knowledge with expertise in a specialized field that is at the forefront of an academic discipline or area of professional practice.</p> <p>2. Application of Knowledge – Students will have the capacity to:</p> <ul style="list-style-type: none"><li>• undertake research at an advanced level, and</li><li>• contribute to the development of academic or professional skill, techniques, tools, practices, ideas, theories, approaches, and/or materials</li></ul>
Program-Specific Learning Outcomes	<p>Depth and Breadth of Knowledge</p> <p>Students will demonstrate:</p> <ol style="list-style-type: none"><li>1. advanced-level knowledge of the general field of [name of field] and specific field(s) of [name of field(s)]</li><li>2. expert knowledge in their field of specialization</li></ol> <p>Application of Knowledge</p> <p>Students will demonstrate the capacity to:</p> <ol style="list-style-type: none"><li>1. undertake [pure/applied/other/NA] research at an advanced level, and</li><li>2. contribute to the development of academic or professional skill, techniques, tools, practices, ideas, theories, approaches, and/or materials.</li></ol> <p>Awareness of Limits of Knowledge</p> <p>Students will demonstrate:</p> <ol style="list-style-type: none"><li>1. an appreciation of the limitations of one's own work and discipline, of the complexity of knowledge, and of the potential contributions of other interpretations, methods, and disciplines.</li><li>2. an ability to critically evaluate current research and research techniques and methodologies.</li></ol>

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*30/06/2020*

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Forms of Evidence	<p>Knowledge will be assessed and students provided with regular oral and written formative feedback in programs through the appropriate supervisor meetings, supervisory committee meetings, proposal and final thesis defence, specifically:</p> <p>Depth and Breadth of Knowledge</p> <ol style="list-style-type: none"><li>1. Topic presentation and discussion during yearly supervisory committee meetings.</li><li>2. The successful completion of [list of course work or learning activities, broken down in specific courses with specific learning outcomes]</li><li>3. Passing the [candidacy/qualifying/ comprehensive] examination or completing all explicitly detailed and justified in committee requirement of a conditional pass in this examination.</li></ol>
	<p>Application of Knowledge</p> <ol style="list-style-type: none"><li>1. Research progress during yearly supervisory committee meetings.</li><li>2. The review, defence and approval of a PhD proposal by a [exam committee name].</li><li>3. The defence of a PhD thesis.</li></ol> <p>Awareness of Limits of Knowledge</p> <p>Conducting [field appropriate] review of the state of the art [literature, techniques, standards, works of art] and developing [relationships, networks, collaborations] to identify and explain the [history, theory, research, techniques, paradigms] which is reviewed, defended and approved during of a PhD proposal by a [exam committee name] and at the PhD defence examination.</p>

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RESEARCH COMPETENCY	The ability to conceptualize, design and implement research for the generation of new knowledge; to make informed judgments on complex issues, in a specialized field
	<p>Research Competency learning outcomes are specified below and are to be augmented in programs using field specific requirements, as appropriate. Students will be able to:</p> <ol style="list-style-type: none"><li>1. Conceptualize, design, and implement research for the generation of new knowledge, applications, or understanding at the forefront of the discipline and to adjust the research design or methodology in the light of unforeseen problems.</li><li>2. Make informed judgments on complex issues in specialist fields, sometimes requiring new methods, such as being able to:<ul style="list-style-type: none"><li>• Generate research questions/hypotheses based on experience, discipline specific expertise, and scholarly literature.</li><li>• Conceptualize, design, and implement a research project of significant scope to complete a thesis.</li><li>• Assess strengths and weaknesses of various methodological approaches relevant to a research question.</li><li>• Select, defend, and apply a methodological approach to answer a research question.</li><li>• Locate and/or generate information/data relevant to a research question.</li><li>• Situate a research question within the existing field specific knowledge and where appropriate outside the field and/or discipline.</li><li>• Organize information/data to reveal patterns/themes.</li><li>• Analyze information/data and synthesize information to generate new knowledge/understanding.</li><li>• Monitor research progress, refine, and pivot approach as needed</li></ul></li></ol>
Program- Specific Learning Outcomes	Students will be able to produce original research, or other advanced scholarship, of a quality to satisfy peer review, and to merit publication in their field.

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COMMUNICATION SKILLS	The ability to demonstrate written communication, oral communication, and listening skills, and to communicate effectively and professionally with a broad audience
	<p>Communication Skills learning outcomes are specified below and are to be augmented in programs using field specific requirements as appropriate. Students will be able to communicate complex and/or ambiguous ideas, issues, and conclusions clearly and effectively to specialist and non-specialist audiences, using:</p> <ol style="list-style-type: none"><li>1. written communication</li><li>2. oral communication</li></ol> <p>Beneficial Options Students will be able to:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> communicate using technical, digital, or other methods</li><li><input type="checkbox"/> use active listening skills</li></ul>
Program Specific Learning Outcomes	Students will demonstrate the ability to write field appropriate publications aimed at peer review.

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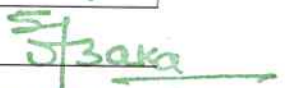
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PROFESSIONAL CAPACITY/AUTONOMY	<p>The ability to research, reflect upon, and take ownership of the development of skills and career goals</p>
	<p>Professional Capacity/Autonomy learning outcomes are specified below and are to be augmented in programs using field specific requirements as appropriate.</p> <p>Students will be able to demonstrate:</p> <ol style="list-style-type: none"><li>1. The qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex situations</li><li>2. The intellectual independence to be academically and professionally engaged and current, developed in part through the Individual Development Plan process of:<ul style="list-style-type: none"><li>• researching potential career options</li><li>• reflecting upon skills and competencies in the University of Alberta graduate attribute areas of creativity, communication, confidence, scholarship, ethical responsibility, critical thinking, and collaboration</li><li>• creating timelines and milestones for professional development, academic, and personal commitments</li><li>• reviewing progress regularly</li></ul></li><li>3. The ability to evaluate the broader implications of applying knowledge to particular contexts.</li><li>4. The ability to receive, handle and act upon, and provide constructive feedback.</li></ol> <p>Beneficial Options</p> <p>Students will be able to demonstrate:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> The ability to take initiative to identify need and provide service to a community.</li><li><input type="checkbox"/> The ability to acquire new, or enhance existing leadership skills, including those required to teach or supervise students.</li><li><input type="checkbox"/> The ability to take initiative to bring about positive change in academic, professional and personal contexts, guided by the principles of equity, diversity and inclusion (EDI).</li></ul>

  
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Program- Specific Learning Outcomes	<p>Students will demonstrate self-direction and originality in tackling and solving problems, and autonomy in planning and executing research. Beneficial Options</p> <p><input type="checkbox"/> the capability to teach a course and/or be a teaching assistant in the field of [name of field] (e.g. of field specific teaching requirement)</p> <p><input type="checkbox"/> field specific communication and networking skills [e.g. field specific professional requirements]</p> <p><input type="checkbox"/> [program specific professional development requirements]</p>
Forms of Evidence	<p>Professional Capacity/Autonomy will be assessed and students provided with regular oral and written formative feedback in programs through:</p> <ol style="list-style-type: none"><li>1. Presenting and defending degree progress during yearly (or more frequent) formal supervisory committee meetings; progress and performance are to be kept in the minutes of the meeting and within program designated forms</li><li>2. Documenting, and reviewing with their supervisor, feedback received during supervisor meetings, supervisory committee meetings and candidacy exam, and addressing identified issues.</li></ol> <p>FGSR Professional Development Requirement</p> <ol style="list-style-type: none"><li>3. Completing FGSR or program-specific Individual Development Plan</li></ol>

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ETHICS	The ability to identify, explain, analyze, and propose solutions to ethical issues
	<p>Ethics learning outcomes are specified below and are to be augmented in programs using field specific requirements as appropriate.</p> <p>Students will be able to:</p> <ol style="list-style-type: none"><li>1. Identify ethical concerns specific to their field of research, such as treatment of human and animal subjects, interdisciplinary research, and Indigenous research.</li><li>2. Recall, recognize, analyze, discuss and act in ethical matters in:<ul style="list-style-type: none"><li>• the subject field under investigation including those specific to course work, capstone project, thesis, scholarship and funding applications,</li><li>• academic conduct, and</li><li>• interactions with others in the community as stipulated in the code of student behaviour.</li></ul></li><li>3. Propose solutions to ethical dilemmas and articulate what makes a particular course of action ethically defensible.</li><li>4. Identify ethical concerns in academic integrity, use and citation of sources, the misrepresentation of data and/or facts.</li><li>5. Recognize the importance of information and data handling (confidentiality, transparency, not falsifying data, etc).</li></ol> <p>Beneficial Options</p> <p><input type="checkbox"/> Explain, recognize, and analyze ethical areas of responsibility held when teaching or mentoring within field</p>
Program- Specific Learning Outcomes	Students will complete program specific ethics requirements i
Forms of Evidence	<p>Ethics will be assessed and students provided with regular oral and written formative feedback in programs through student records of:</p> <ol style="list-style-type: none"><li>1. In the first year of their program, completing program course/workshops, or FGSR workshops, or other approved</li></ol>



formal activities in the area of ethics, which have embedded assessments and may include:

- Student code of conduct,
- Plagiarism,
- Copyright, and
- Sexual violence

2. Beyond the first year of their program, completing program specific ethics training as appropriate, including elements listed in the ethics learning outcomes

3. Demonstrating field-appropriate application of ethics principles within the research proposal, thesis, and thesis defence.

4. Completing 8 hours of professional development activities

Beneficial Options

☐ Providing feedback to other team members and/or staff, as appropriate and/or through peer reviewing of field appropriate publications.


☐ Completing some of the mandatory 8 hours of professional development activities in the areas of:

- Equity, Diversity, and Inclusion
- leadership
- professional behaviors, the workplace, and career management
- communication and networking

☐ Completing service activities within the community.

☐ Successfully teaching or being a Graduate Teaching Assistant, and receiving evaluative feedback, for at least an undergraduate course in [field]

☐ [Program specific professional development requirements assessments]

  
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Forms of Evidence	<p>Communication Skills will be assessed and students provided with regular oral and written formative feedback in programs through the appropriate committee meetings, proposal and final thesis defence, and publications. Required forms of evidence include:</p> <p>1. Thesis Proposal</p> <ul style="list-style-type: none"><li>• Student successfully wrote their doctoral research proposal.</li><li>• Student successfully presented and orally defended their doctoral research proposal.</li></ul> <p>2. Thesis Defence</p> <ul style="list-style-type: none"><li>• Student successfully wrote their doctoral thesis.</li><li>• Student successfully presented and orally defended their doctoral thesis.</li></ul> <p>3. Communication with specialist and non-specialist audiences - in manners relevant to the field of study, such as:</p> <ul style="list-style-type: none"><li>• Clear and effective documentations for course work, grant proposals, and/or manuscripts, as appropriate for the program</li><li>• Discipline-related communications using technical (eg. schematic), media (eg. video), or digital (eg. code) formats for academic and non-academic audiences</li><li>• Presentations or lectures at conferences</li><li>• Teaching of courses, guest lecturing, etc.</li><li>• Drafts of publications for internal and peer review</li></ul> <p>Beneficial Options</p> <p><input type="checkbox"/> Completing general communication and/or social media professional development or assessment</p> <p><input type="checkbox"/> Completing active listening professional development and/or applying active listening in professional settings .</p>
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Forms of Evidence	<p>Research Competency will be assessed and students provided with regular oral and written formative feedback in programs through the appropriate committee meetings, proposal and final thesis defence, specifically:</p> <ul style="list-style-type: none"><li>• Topic presentation and discussion during yearly supervisory committee meetings.</li><li>• The review, defence and approval of a PhD proposal by a [exam committee name].</li><li>• The review, defence and approval of a PhD thesis by a [exam committee name].</li><li>• The completion, as first author, of papers or creative works for peer review, in volume and form as appropriate for the field.</li><li>• Presentations to field appropriate stakeholders at [local, national and/or international conferences, industry, clinics venues appropriate in the field].</li></ul>
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