

Courses Description

Physics (Dentistry) BDS 101 (Old and New Study Plan)

The course is designed to cover the basic concepts in most branches of classical mechanics, electricity, and thermodynamics as well as some modern physics concepts applicable to x-rays, lasers, and radioactivity with their applications in modern dentistry.

General Chemistry (Dentistry) BDS 126 (Old and New Study Plan)

This course presents the fundamentals of certain topics in general chemistry. It includes two major parts: Part I is the general part, and Part II is the organic part. The general part will introduce the student to basic aspects of general chemistry, i.e., the atomic structures, electronic configuration, periodic table of elements, the chemistry of metals, and the fundamentals of chemical bonds and chemical reactions. The organic part covers some important areas in organic chemistry, which include aliphatic and aromatic hydrocarbons, stereochemistry, as well as some functional groups, e.g.: alcohols, phenols, and carbonyl compounds.

Pharmacology I (Dentistry) BDS 239 (Old and New Study Plan)

This course will introduce the general aspects of pharmacokinetics and pharmacodynamics. Students will also learn basic pharmacotherapy for relevant disorders of cardiovascular system, CNS, endocrine system, gastrointestinal system, including asthma and drugs of abuse that are pertinent to practice of dentistry.

Psychology & Behavioral Sciences BDS 210 (Old and New Study Plan)

This course aims at providing dentistry students with an insight of psychology, and helps them to observe, evaluate and explain the behavior of people in relation to oral/dental health care in particular. The students are provided with information regarding basic psychological concepts, psychological disturbances and disorders, management techniques and their application specifically in the field of dentistry and healthcare. It is designed to be helpful to dental students by providing them an understanding of the people (patients and dental team members) they will come across in their dental practice/career. This will allow them to better understand the feelings and thoughts of their patients and help them relax and be comfortable during dental treatments.

Biomaterials BDS 213 (Old and New Study Plan)

The course is designed to introduce students to the different types and classification of materials used in dentistry, and provide students with knowledge of their physical, chemical, and biological properties. It emphasizes on employment of concepts in modern materials science to solve dental problems.

English for Special Purposes (Dentistry) BDS 110 (Old and New Study Plan)

This course aims at preparing students of the Dentistry School to cope with the kind of English needed in the real life situations and field of specializations in the future. It enables the students to practice the four skills. The course develops the students' competence through using the language resource room, CD ROMs, the internet and some other audio-visual facilities.

Microbiology & Immunology BDS 214 (Old and New Study Plan)

Oral microbiological environment is a key determinant in caries formation, periodontal diseases and other oral health issues. Microbiology is the study of microorganisms including bacteria, fungi and viruses, with emphasis on applications relevant to the study of dentistry. This course is designed to introduce the students to the world of microbes exemplified by prokaryotes, eukaryotes and the unique properties of the viruses. The course covers aspects of medical organisms that can inflict damages to human health in general, with a focus on Dental caries, Periodontal diseases and salivary gland infections. It also covers the basic concepts of immunology. The above-mentioned topics gives the students enough background of microbiology to prepare them with other disciplines to become professional dentists competent to work in hospitals and private clinics.

Pathology BDS 215 (Old and New Study Plan)

This course covers the fundamentals of the basic disease process in the body. Students are provided with gross, microscopic & biochemical features of different pathological conditions. Objectives of this course are to study and understand different pathogenic processes in details in order to establish a sound foundation for clinical practice in dentistry. Teaching tools include power point plus projection, practical lessons with CD presentations & internet explorations.

Head & Neck Anatomy II BDS 223 (Old and New Study Plan)

The course deals with the description of the neck region and also includes brain & spinal cord. The main elements are the nerves & vessels, lymphatic drainage, fascial spaces and muscles of neck, the pharynx and larynx with special reference to the anatomical basis of the management of upper airway obstruction and related radiology. Further it provides the relevant details of pain physiology, brain, spinal

cord their development and cranial nerves function and test. In general the course will provide the basis to the dental practice involving the anatomical structures.

Integrated Biological Sciences I BDS 111 (Old and New Study Plan)

This course deals with the study of two complementary branches of biology, human anatomy and human physiology which provide the basic concepts helping dental students understand how the human body is developed, the way it is built up and how it works. Objectives of this course are to develop the foundational knowledge and basic concepts necessary to independently perform the diagnostic and clinical skills.

Histology & Cell Biology BDS 112 (Old and New Study Plan)

This course provides students with general knowledge about the cell and various cellular organelles, and the characteristic structure of each organelle that enable it to perform essential functions within the cell. The students are also provided with wide knowledge concerning the morphological features of the four primary tissues and recognize their roles in forming organs. A basic knowledge of cell division, general embryology and genetics integrates the above information.

Oral Radiology I BDS 221 (Old and New Study Plan)

This course discusses the basic principles of X-ray production, the biological effects of ionizing radiation and radiation safety. This course demonstrates the intraoral radiographic techniques and prepare the students learn to take intraoral radiographs. Objectives of this course are to develop the fundamental knowledge of x ray production and skill to independently perform the radiographs and interpretation of normal intraoral radiographic anatomy.

Introduction to Oral & Dental Diseases BDS 220 (Old and New Study Plan)

This is an introduction to the profession of dentistry. This course provides students with knowledge and understanding of oral and dental diseases, etiology, pathogenesis and different stages of these lesions and their clinical manifestations.

Head & Neck Anatomy I BDS 123 (Old and New Study Plan)

The course is intended to help the dental student to study & understand the basic terms & facts about the gross anatomy of the head region of human body. The course includes the study of the detailed structures of the skull, the head its nerve and blood supply. Also, the course includes full descriptions of the various muscles & glands of the face, orbit, nasal cavity, oral cavity, floor of the mouth, palate &

tongue. In general, the course will provide the dental student with the fundamental detailed structures of the skull & head as related to dental practice.

Integrated Biological Sciences II BDS 121 (Old and New Study Plan)

This course is intended to help dental students to understand the basic concepts of Anatomy & Physiology simultaneously, with emphasis on topics related to the dental practice. The course covers the study of the main body systems with great emphasis on the applied & the practical aspects. The teaching tools include CD presentations, Power points presentations, videotapes & Internet explorations.

Biochemistry (Dentistry) BDS 119 (Old and New Study Plan)

The course is designed to provide a comprehensive survey of the major topics in biochemistry. It explores how the structure of proteins, carbohydrates, lipids, nucleic acids, and vitamins relates to their function. Metabolism and energy production as well as biosynthesis of small and macromolecules are discussed. Special topics such as Calcium metabolism, bone mineralization, and Dental caries are included.

General Medicine & Infectious Diseases BDS 226 (Old and New Study Plan)

This comprehensive course covers topics specific to the medical field, with interest to medically compromised patient as related to dental care. Students are provided with basic concept of general medical & infectious diseases. Teaching tools include: power point plus projection, practical lessons with CD presentations & internet explorations.

Oral Histology BDS 122 (Old and New Study Plan)

This course describes in details the development and structure of the oral cavity and teeth. Students are provided with the basic concepts of oro-facial development and structures. The microscopic, histological and ultrastructural organizations of soft and hard oral tissues are studied in detail. A considerable knowledge of functional and clinical correlation is also stressed.

Dental Anatomy & Occlusion BDS 222 (Old and New Study Plan)

This course deals with nomenclature as related to the morphology of the natural dentition. It includes theory related to the morphology of the deciduous & permanent teeth in the human dentition and variations in the anatomy and pulpal morphology between permanent and deciduous posterior teeth. Laboratory exercises include wax-adding & carving to build up the crowns of permanent teeth, analyze occlusal patterns and correct occlusal disharmonies. Its significance is integrated with dental treatment in Operative Dentistry, Endodontics, Prosthodontics, Periodontics and Orthodontics.

General Surgery & ENT BDS 227 (Old Study plan)

General Surgery & ENT BDS 237 (New Study Plan)

The course is intended to help dental students to study & understand the basic principles of surgery & ENT in relation to Dentistry and Oral and maxillofacial Surgery. The course includes the knowledge of the theoretical & practical approaches to the assessment of surgical and how to perform an effective risk assessment preoperatively based on the information obtained from case history, clinical examination, investigations in relation to the anesthetic potential risks and also the invasiveness of the planned surgery. Also, the student will identify the pathology of tumors, cysts, fistulae, sinuses & ulcer in head and neck region. Information about trauma, tissue repairs & preoperative management of inpatients like administered fluids, water balance monitoring and indications and possible complications of blood transfusion are also included within the course. In addition, the student will study the various common diseases of the ear, nose, Para nasal sinuses & pharynx. Finally the students will learn the common postoperative complications seen in surgical patient wither due to anesthesia, the surgical intervention or those initiated or aggravated by the existing morbid conditions of surgical patients.

Pharmacology II (Dentistry) BDS 240

This course covers various classes of drugs acting on the CNS, blood drugs and antimicrobial agents used for treatment of different oral infections. A special emphasis is made on the clinical indications, dosage, potential side effects and drug interactions. The course also highlights the importance of standard practice in prescription writing to ensure both effectiveness of the treatment and patient safety.

Infection Control BDS 228

This course explains the different ways of transmission of infectious diseases and emphasis on the immunization of all oral health care providers. The course describes the sterilization methods in dental practice, application of protective barriers, personal protective equipment and infection control during all clinical dental procedures.

Pre-Clinical Periodontics I BDS 318

This course describes in details the anatomy of periodontium and associated structures. Students are provided with the basic concepts of periodontal health. The microscopic, histological and ultra-structural organizations of soft and hard oral tissues are studied in detail. Basic knowledge of functional and clinical correlation is also stressed.

Pre-Clinical Oral Surgery I & Pain Control BDS-313

This course presents the complete pharmacology of local anesthetic agents and commonly used injection techniques. The course also includes different methods of pain control, dental management of the medically compromised patients and medical emergencies in dental practice. Practical training will prepare students for manual implementation of different technique of local anesthesia, as well as examination of compromised patients.

Pre-Clinical Endodontics I BDS 317

The theoretical part covers topics which include an introduction to the subject, anatomy and morphology of the root canal system, access cavity preparation, cleaning & shaping of the root canal systems and it lays emphasis on possessing thorough knowledge of the various endodontic instruments. The pre-clinical Endodontics I practical component focuses on the treatment of anterior and premolar teeth. This prepares and enables students to be competent in treatment of clinical endodontic cases in the next year.

Pre-Clinical Operative Dentistry I BDS 315

The main components of this course are the principles of cavity preparation for the currently available restorations according to their physical and manipulative characteristics and the steps of cavity restorations. Amalgam restorative materials is the main emphasis in the practical part of this semester.

Preventive Dentistry & Nutrition BDS 311 (Old Study Plan)

Preventive Dentistry & Nutrition BDS 331 (New Study Plan)

The Preventive Dentistry and Nutrition course introduce the student to the principles and methods of prevention including information on etiology of dental caries, periodontal diseases and methods of preventing and controlling dental diseases through a preventive treatment plan and health education programs. In addition, this course provides the students with a basic knowledge of the essential nutrient materials in both health and disease, and discusses the role of the nutrition on the development, prevention and treatment of the oral and dental diseases.

Pre-Clinical Prosthodontics I BDS 316

This course will introduce the student to the basic theoretical and preclinical knowledge involved in the construction of removable partial and complete dentures. It consists of didactic and practical components at which the students will elaborate the discipline of removable prostheses at two stages. In the first stage, the pre-clinical laboratory procedures along with their related clinical interdependence procedures for complete denture construction will be stressed. The second stage, the preclinical laboratory procedures of removable partial denture construction with their clinical interdependence procedures will be stressed.

Pre-Clinical Pediatric Dentistry I BDS 312

This course introduces pediatric dentistry as an essential branch of dentistry related to child patients mainly focusing on the development and growth of oral/facial structures of children and recognizing the chronology of primary and permanent dentition. Different types of dental anomalies have been described with their genetic aspects. Child abuse and neglect are discussed in relation to pediatric dentistry. Psychological management, examination, diagnosis and treatment planning of child patients are introduced.

Oral Pathology I BDS 314

This course deals with the understanding of the basic disease processes affecting the head & neck regions. The etio-pathogenesis, clinical features & histopathologic features of developmental disorders, non-odontogenic & odontogenic lesions, cysts & infections related to the teeth, their supporting structures, jaw bones & soft tissues in & around the oral cavity will be dealt with. It also includes the oral manifestations of systemic diseases, the differential diagnosis & prognosis of various pathologies.

Four-Handed Dentistry BDS 320 (Old Study Plan)

Four-Handed Dentistry BDS 229 (New Study Plan)

This course describes the concept and advantages of four-handed dentistry. It describes the ergonomic position for the patient, dental assistant, and doctor and explains the responsibilities of the dental assistant during clinical dental work. The course also describes the ergonomic arrangement of dental clinics.

Pre-Clinical Orthodontics BDS 321 (Old Study Plan)

Pre-Clinical Orthodontics BDS 332 (New Study Plan)

The course will introduce the third-year dental student to the fundamentals of orthodontics, including topics on the concepts of growth and development of the craniofacial structures, etiology of orthodontic problems, biological basis of orthodontic therapy, and clinical features of different malocclusions. This course is also designed to give the student a basic understanding of the skills required to fabricate removable orthodontic appliances that are typically indicated for limited tooth movement and retention in interceptive orthodontics.

Pre-Clinical Pediatric Dentistry II BDS 322

This course discusses radiographic as well as local anesthetic techniques used for child patient which needs specific modifications. Management and treatment of dental caries with different types of cavity

preparations have been discussed. Also it describes vital and non –vital pulp therapy for primary teeth which considered an important issue in restoration and prevention of primary teeth extraction, on the other hand in case of losing the primary teeth it is necessary to plan arch space analysis and construction of space maintainer to prevent space loss.

Pre-Clinical Oral Surgery II BDS 323

The purpose of this course is to prepare the student to recognize advanced oral and maxillofacial surgery problems. Upon the completion of this course, the student will be able to formulate diagnosis and treatment plans in order to provide surgical care within the context of a patient-centered system of care delivery. In addition, this course will promote surgical principles and techniques to correct the pathologic conditions mentioned here.

Oral Pathology II BDS 324

This course is a continuation of Oral Pathology I. Students will continue learning the etio-pathogenesis, histopathologic features of benign and malignant pathological lesions related to the oral cavity. The oral manifestations of physical & chemical injuries to the oral tissues will also be detailed.

Pre-Clinical Operative Dentistry I BDS 325

This course consists of two main components, the principle of cavity preparations for the currently available restorations and their physical and manipulative characteristics and cavity restorations. A composite restorative material is the main emphasis in the practical part of this semester, in addition to indirect restorations.

Pre-Clinical Prosthodontics II BDS 326

This course will introduce the student to basic theoretical and preclinical knowledge involved in the construction of fixed prostheses. It consists of didactic and practical components at which the students will be familiarized with the principles and different procedures of fixed prosthodontics. The didactic part will emphasize on various techniques of teeth preparation along with instruments and equipment required to execute the fixed prostheses. While the practical part will include practicing the tooth preparation on a simulated phantom model, fabrication the temporary restoration and other related procedures involved in the fabrication of fixed prosthesis.

Pre-Clinical Endodontics II BDS 327

The theoretical part covers topics which include root canal obturation, endodontic microbiology, endodontic mishaps management, pulp and periapical pathology, diagnosis and diagnostic procedures.

The pre-clinical lab/practical component focuses on performing endodontic procedures on molars. This prepares the students to perform basic endodontic procedures prior to entering the clinics in next year.

Pre-Clinical Periodontics II BDS 328

In this course lectures and practical training are given to students to expose them to immune response (host response) and periodontal pathogenesis. A complete spectrum of periodontal lesions and their pathogenicity, plaque control, trauma from occlusion, food impaction and halitosis are to be stressed.

Oral Diagnosis / Oral Medicine BDS 410 (Old Study Plan)

Oral Diagnosis / Oral Medicine BDS 424 (New Study Plan)

This course describes in detail the art of history taking, examination, investigation of oro-facial lesions and interpretation of the results of investigations. The course also will help the students to learn the etiopathogenesis of local disease processes in oro-facial areas along with oral manifestation of systemic diseases affecting the oral mucosa. Students are provided with the basic concept of oral manifestation of systemic diseases and their management.

Oral Radiology II BDS 411

The course will provide a basic understanding of the acquisition and interpretation of radiographic imaging studies for diagnosis and treatment planning of conditions affecting the oral and maxillofacial region.

Clinical Pediatric Dentistry I BDS 412

This course will reinforce basic knowledge developed during the third year preclinical course, and facilitate continued development as the student performs routine pediatric dentistry procedures commonly employed in general dental practice. This course will also provide the fourth year dental student with a defining clinical experience that will include: diagnosis, prevention and treatment of the different pathological conditions in pediatric patients; classification, diagnosis and management of different traumatic injuries of oral & dental structures in primary and permanent teeth. Objectives of this course are to develop the foundational knowledge, skills and values necessary to independently perform diagnostic and clinical skills and participate safely in the care of pediatric patients.

Clinical Orthodontics I BDS 413

This course introduces the dental student to the practice of orthodontics. The primary goal of this experience is to reinforce didactic concepts taught in the third year and build upon them in a manner that will better prepare the student to recognize, communicate and manage orthodontic problems in the

general dentistry setting. In this manner, the student will be able to make proper diagnosis and differential diagnosis of patients of all ages, plan and execute the treatment of selected uncomplicated malocclusion cases.

Clinical Operative Dentistry I BDS 415

This course consists of the diagnosis, prevention, treatment, and prognosis of the diseases and injuries inflicted upon the teeth. Also includes the study of basic concepts of restoration relation to oral and dental tissues and the various restorative materials. The curriculum includes both didactic and clinical components over a period of two semesters, and involves a clinical training program. The clinical training program for two semesters involves a clinical application of principles and skills acquired, based on a comprehensive approach in oral health care.

Clinical Prosthodontics I BDS 416

This course consists of two main components, complete denture, and removable partial denture prosthodontics. Prosthodontic treatment planning principles are provided in lectures and the group seminars. The didactic component focuses on planning and integrating removable prosthodontic interventions within a continuum of comprehensive patient care. The clinical instructors will ensure that the knowledge acquired in the preclinical years of studying is towards evidence-based decision making regarding prosthodontic management of patients partially and completely edentulous jaws. The course will be presented in lectures and clinical sessions, the lectures cover various clinical techniques, the manipulation of dental materials, and how to use dental instruments and equipment.

Clinical Endodontics I BDS 417

This Course aims to enable the students to diagnose the need for endodontic therapy. Previous endodontic courses presented a biologic foundation relating to endodontic clinical diagnosis. Students are provided with the basic concepts of diagnosis and treatment planning including medically compromised patients. Advanced endodontic techniques and/ or treatment modalities for the following conditions are also discussed: Endodontic retreatment, apexification and apexo-genesis, Internal and external resorption, traumatic injuries to teeth.

Clinical Periodontics I BDS 418

The course prepares students to understand the underlying changes and the comprehensive nature of the periodontal response to therapy. It focuses primarily on the differential diagnosis, prognosis, and treatment planning of various forms of periodontal disease. The treatment of periodontal problems is integrated into the practice of dentistry.

Clinical Oral Surgery I BDS 419

This course will reinforce basic knowledge developed during the third year preclinical course, and facilitate continued development as the student performs routine oral surgery procedures commonly employed in general dental practice. This course serves as a defining clinical experience for the dental students by providing them with the opportunity to participate in the evaluation and management of surgical patients such as with intraoral lesions, maxillary sinus and salivary gland pathologies to name a few. Objectives of this course are to develop the foundational knowledge, skills and values necessary to independently perform diagnostic and clinical skills and participate safely in the care of surgical patients.

Internal Clinical Training Year 4 BDS 435

This clinical course is in the summer semester of the fourth year of the dental curriculum. It is designed to provide students with clinical experience in the care of patients in the areas of Periodontics, Operative Dentistry, Endodontics, Pediatric Dentistry and Oral Surgery with a focus on comprehensive care and treatment planning. There is no theoretical component to this course. Students are assigned patients having various dental problems, and they have to formulate a comprehensive diagnosis and treatment planning, including patient and clinical management. (This course has no grade, it is Pass or Fail (P/ F) only.)

Clinical Prosthodontic II BDS 426

The clinical fixed partial denture prosthodontics course consists of the theoretical part and the clinical training. The students should know how to do clinical examination, proper diagnosis and sound treatment plan. At the end of this course all students will be familiar with the best techniques of fixed partial dentures treatment, and will develop their manual dexterity in all clinical aspects for the construction of this type of prosthesis. Every student should complete all the requirements needed, recognize the importance of the preservation of the prepared teeth, periodontal tissues, and other soft tissues of the oral cavity while performing all types of restorations.

Clinical Oral Surgery II BDS 429

The purpose of Clinical Oral Surgery II is to prepare the student to recognize advanced oral and maxillofacial surgery problems that in most cases will require referral to an oral and maxillofacial surgeon. Discussions will include diagnostic and treatment considerations relative to cases that require referral to an oral and maxillofacial surgeon as well as those that may be treated by the general dentist. The course will also describe the characteristics and surgical management of the more common trauma, anomalies and malignancies of the oral & maxillofacial region.

Clinical Periodontics II BDS 428

This course consists of a didactic and clinical component. It will cover: The treatment of different types of periodontal diseases. The interrelation between periodontics and related dental specialties. Introduction to the surgical approaches in the management of moderate to advanced periodontal diseases. To

distinguish acute and chronic (mild, moderate and advanced) forms of periodontal diseases and management by non-surgical and surgical treatment. To expose the students to focus on objectives of periodontal therapy, treatment planning and techniques including pre prosthetic, pre restorative, reconstructive surgery and knowledge necessary for advanced periodontal regeneration procedures.

Clinical Pediatric Dentistry II BDS 422

This course intends to inform and provide the dental student with sufficient knowledge on indications, techniques used in pharmacological methods of child's management including sedation and GA in management of anxious children. This course will also provide the fourth year dental student the team approach for the management of cleft lip & palate child at the level of the undergraduate students, dental management of special health care needs children. They are also taught interceptive orthodontic methods in a growing child. Child abuse and neglect are discussed in relation to pediatric dentistry.

Clinical Orthodontics II BDS 423

This course is meant to enrich the dentistry lectures and also the pre-doctoral orthodontic experience; it will provide for each student to briefly present a clinical case and to view a large number of clinical orthodontic cases and establish combination between treatment and the alternative four dental specialties pedodontics, periodontics, dental medicine and surgery. Multidisciplinary treatment approaches are mentioned within the lectures. Clinically, they'll be discussed in the patient examination and identification sessions.

Clinical Endodontics II BDS 427

This Course aims to enable the students to gain knowledge and experience in endodontic treatment. Students are provided with the techniques used to determine success or failure of Endodontic treatment and the indication and contraindication of endodontic surgery, describing procedures and materials. Advanced endodontic techniques and/ or treatment modalities for the following conditions are also discussed: single visit root canal therapy, bleaching of discolored teeth, restoring endodontically treated teeth and relationship of orthodontic treatment, periodontal lesion to endodontic treatment.

Clinical Operative Dentistry II BDS 425

The course of operative dentistry consists of the prevention, diagnosis, treatment, and prognosis of the diseases and injuries inflicted upon the teeth. It serves as a defining clinical experience for the dental students by providing them with the opportunity to participate in the evaluation and management of discolored, fractured and endodontically treated teeth. The curriculum includes both didactic and clinical components, and involves a clinical training program. The clinical training program involves a clinical application of principles and skills acquired, based on a comprehensive approach in oral health care.

Emergency Dental Care BDS-515

This course provides a study of dental office emergencies with an emphasis on prevention, prompt recognition, and effective emergency care. Emphasis is also placed on the etiology of common chronic oral diseases, treatment of specific dental emergencies and applicable assessment methods used in the prevention of emergencies related to the particular disease process. The course also deals with the use of emergency drugs and equipment.

Ethics BDS 510

Dental ethics is the systematic and critical study of morality as it pertains to the practice of dentistry. The course consists of 16 hours of classroom lectures and discussions. It is designed to heighten students' awareness of the importance of ethical issues as they relate to dentistry. The curriculum provides students with an understanding of ethical principles, which have direct relevance to students training and future practice experience. It focuses on common ethical dilemmas found in the relationships between dentist and patient, between dentists themselves, and between dentists and society.

Implantology BDS 518

This comprehensive lecture course presents the scientific basis and clinical applications of modern dental implantology techniques, and covers both the surgical procedures and periodontics and prosthodontics considerations in implant dentistry. Students perform implantology procedures in a Lab setting.

Clinical Dentistry I BDS-519

The purpose of this course is to reinforce and refine patient management skills that students have been introduced to in the fourth-year courses. It is designed to observe, evaluate, and subsequently assist students in understanding and practicing proper comprehensive patient care and management. This course focuses on refinement and integration of clinical skills. It does not contain any formal theoretical lecturing. Students are assigned in clinical blocks for patient care and treatment planning. These treatment plans and completed treatment are discussed, and are evaluated as to the rationale and sequences used. Taught by an interdisciplinary faculty, this course considers strategies and approaches for the integration of isolated dental procedures into an appropriately sequenced treatment plan for comprehensive patient care.

Treatment Planning & Seminars BDS 511 (Old Study Plan)

Treatment Planning & Seminars BDS 414 (New Study Plan)

This course is developed to give the students the experience to analyze their clinical cases, to enhance their clinical capability and patient management using case studies and patients presented by students. Treatment Planning & Seminars will help the students to acquire and integrate their basic science, behavioral and clinical knowledge in the context of solving a patient's problem, including communication

and ethical aspects. Topics presented are in a multidisciplinary field of dentistry, such as ethics, health care delivery, communication skills and practice management. Ethics related cases discussions will provide the needed experience to the dental students to the medico-legal aspects related to their future practice, in the fields of: Medical Ethics, Medical Responsibility and Forensic Medicine.

Geriatric Dentistry BDS 513

This course focuses on issues and concerns related to the rapidly increasing elderly population. It also provides the student with an understanding of the aging process and the multidisciplinary needs of the older patient. Myths and stereotypes about aging and the aged, which exist and influence the provision of health care to the older population, will be discussed and expelled. It will provide the student with a framework of knowledge about the biological, psychological, sociological, behavioral, and general medical aspects of aging from which treatment can be planned and provided appropriately. A multidisciplinary team of speakers will present approaches that will help the student in integrating dental training and practice with the management, diagnosis, and treatment of the older patient.

Internal Clinical Training Year 5 BDS-535

This clinical course is designed to provide students with clinical experience in the care of patients in the areas of Periodontics, Operative Dentistry, Endodontics, Pediatric Dentistry, and Oral Surgery with a focus on comprehensive care and treatment planning. There is no theoretical component to this course. It reinforces and refines the students' knowledge and skill required for the graduate level of clinical practice of dentistry. Students are assigned patients having various dental problems, and they have to formulate a comprehensive diagnosis and treatment plan, including patient and clinical management. Students are expected to perform comprehensive care at an advanced level from that of the previous summer semester. This course has no grade, it is Pass or Fail (P/ F) only.

Applied Biostatistics BDS 512 (Old Study Plan)

Applied Biostatistics BDS 432 (New Study Plan)

This course provides dental students with the necessary background of specific statistics relevant to the medical/dental fields in addition to adequate knowledge of study design in medical & dental research, enabling the dental student to critically evaluate and apply the appropriate statistics to dental and medical research.

Research Project BDS-522

The course is designed to enable the student to conduct a research project under the guidance of a teaching faculty. Students learn how to approach a research topic of interest, apply the basic principles of research design, and to formulate the appropriate methodology and analysis for the research.

Clinical Dentistry II BDS-529

This course is a continuation of Clinical Dentistry I, and contains formal theoretical lecturing. Small group clinical discussions and demonstrations will be taken by the faculty. It is designed to provide students with more clinical experience in the care of patients with a focus on advanced comprehensive care and treatment planning. Students are assigned in clinical blocks for patient care and treatment planning. All treatment options are discussed so that the student learns the fundamentals of good treatment planning and patient care. Taught by an interdisciplinary faculty, this course considers strategies and approaches for the integration of isolated dental procedures into an appropriately sequenced treatment plan for comprehensive patient care. The course by its lectures and clinics mainly focuses on improving the quality of comprehensive care expected of a graduating student.

Practice Management BDS 523

This course is designed to provide the senior dental student with a general introduction to the basic principles of dental practice management. The primary focus will be on developing an understanding of various management concepts, processes & its role in obtaining an effective overall management of dental practice. The topics focused on include staff management, patient management, legal concepts and terminologies, office design, equipment placement, occupational hazard, appointments management, records management, dental insurance system, and inventory and supply management.

Equipment Maintenance BDS 524

This course focuses on basic principles of various dental equipment, their operations and general preventive maintenance procedures. It also covers basic electrical theories and electrical safety precautions while dealing with dental equipment. Additionally, advances in dental equipment technologies will also be covered in this course. This course helps the students to build the required skills and confidence to perform routine maintenance and minor repairs without the help of Biomedical technicians/Engineers.

Hospital Dentistry BDS-526

Fifth year students are assigned for six weeks to an affiliated hospital. During these rotations, students are assigned to hospitalized patients to reinforce principles of physical diagnosis for patients with severe medical problems, learn to request and answer consultations.

