



STUDY PLAN BDS PROGRAM

COLLEGE OF DENTISTRY – DAR-ALULOOM UNIVERSITY



CDT_DAU



جامعة دار العلوم
Dar Al Uloom University
لعلوم تواكب العصر

Study Plan

College: Dentistry	Degree: Bachelor of Dental Surgery (BDS)
Curriculum Committee	Major: Dentistry
No. of Semesters: 12	Total Credit Hours: 195
Approval: Ministry of Education	Date of Approval: 8/2/1435h

Program Introduction:

Dar Al Uloom College of Dentistry curriculum is based on the teaching of dental sciences using a curriculum in which several types of teaching strategies are used such as interactive lectures, group discussions, laboratory, practical and clinic training, as well as community-based services. The curriculum uses evidence-based learning strategies such as problem solving, case studies and presentations of researched topics. The curriculum is composed of twelve semesters where courses start from basic sciences toward the comprehensive clinical training. Although the first year of the program is considered as preparatory year for students, efforts are made to make it more relevant to the field of dentistry. This year is followed by basic medical science courses and introduction to dentistry and the basics of dental anatomy and morphology which prepare the students to the applied dental sciences later. For all clinical courses there is a preclinical component in which the student is trained in special laboratories before performing treatments on patients. Both aspects of human disease and treatment will be taught in this curriculum with more concentration on dental skills in managing patients. The clinical components of the curriculum starts early at the 6th semester where students are introduced to basic patient's management, problem diagnosing and basic treatment planning. Students then continue to give more dental care to patients gradually until reaching the comprehensive dental clinics where the patient is provided with a comprehensive treatment during the semester. Students are required to finish many comprehensive cases during the final year of the curriculum. All these dental skills in patient management are supported by strong knowledge related to pathology and medicine. The curriculum also covers many important aspects of current dentistry such as the interaction of student with community by providing community dental service through their study period. More attention is given to patients with special needs to provide them with the dental care they need. Comprehensive patients care and continuous clinical seminars with comprehensive treatment plans discussions are well integrated in this curriculum.

Program Vision:

Excellence in the fields of dentistry and building a knowledge society locally and regionally.

Program Mission:

Graduating skillful dentists and actively participating in community services and oral health research.

Strategic Objectives:

1. Development and improvement of the academic program according to the needs of the job market.
2. Qualifying students and graduates and promoting their scientific and professional skills.
3. Enhancing the scientific research according to the needs and requirements of the community.
4. Strengthening the community services.
5. Providing the highest level of patients' care in accordance with the most recent standards in oral health.
6. Providing an attractive educational, academic and research environment.

Program Learning Outcomes

Knowledge and Understanding:

K1	Describe the sound knowledge of the human body's anatomy, physiology and biochemistry related to dental specialty
K2	Describe sound knowledge of the host defense mechanisms in relation to microbial diseases and other health hazards.
K3	Outline basic fundamentals and theories of oral and maxillofacial pathology and diseases
K4	State an understanding of the clinical and laboratory procedures related to the practice of dental specialty
K5	Define sound knowledge of behavioral sciences, ethics, professionalism and communication methods in dentistry
K6	Describe the basic principles of practice management in dentistry.
K7	Define sound knowledge of research methodology in the field of dentistry.

Skills:

S1	Diagnose common oral and para-oral diseases / conditions as well as malocclusion based on appropriate examination and investigations and on proper understanding of relevant principles and theories
S2	Design treatment planning for oral and para-oral diseases / conditions and malocclusion based on proper application of problem solving, critical thinking and decision-making skills.
S3	Implement patients' management strategies using evidence-based dentistry.
S4	Design and write a sequential and comprehensive treatment plan required for comprehensive patient treatment.
S5	Identify the community oral health problem and design solutions to address them.
S6	Communicate effectively with patients, colleagues and be familiar with patient electronic management system
S7	Operate basic statistical software for data analysis and the use of audio-visual communication technology for data presentation

S8	Perform different basic clinical procedures related to different dental specialties following a safe practice protocol with good manual dexterity.
S9	Perform different basic laboratory procedures related to different dental specialties following a safe practice protocol with good manual dexterity.
S10	Operate different equipment related to different dental specialties that are part of basic dental treatments.
Values:	
V1	Appraise professionally with patients and colleagues and health care providers based on the ethics standards.
V2	Cooperate with all members of the profession in a teamwork approach
V3	Exercise proficient self-management, motivation and planning

Curriculum

Level 1				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
ENGL 1400	English Language (1)	6	None	Institutional
BIOL 1450	Biology	3	None	Institutional
CSKL1100	Computer Skills	3	None	Institutional
SKLS1101	University Skills	3	None	Institutional
HEDF1100	The Health Education and Fitness	1	None	Institutional
Total		16		

Level 2				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
ENGL 1500	English Language (2)	6	ENGL1400	Institutional
CHEM 1450	Chemistry	3	None	Institutional
PHYS 1450	Physics	4	None	Institutional
STAT 1450	Biostatistics	3	None	Institutional
Total		16		

Level 3				
Code	Course name	CRH	Pre-requisites	Type of Requirements
DSBS 210	Gross Anatomy and embryology	3	CSKL1100 BIOL1450 ENGL1400 HEDF1100 CHEM1450 PHYS1450 STAT1450 ENGL1500	Program
DSBS 211	General Human Biochemistry	2	BIOL1450 CSKL1100 SKLS1101 ENGL1400 HEDF1100 CHEM1450 PHYS1450 STAT1450 ENGL1500	Program
DSBS 212	General Human Physiology	3	BIOL1450 CSKL1100 SKLS1101 ENGL1400 PHYS1450 CHEM1450 HEDF1100 STAT1450 ENGL1500	Program
DSAS 213	Ethics & Legal Issues in Dentistry	2	BIOL1450 CSKL1100 ENGL1400 CHEM1450 PHYS1450 STAT1450 ENGL1500	Program
DSBS 214	Infection and host defense	2	BIOL1450 CSKL1100 ENGL1400 HEDF1100 CHEM1450 PHYS1450 STAT1450 ENGL1500	Program

DSAS 215	Introduction to Dental Sciences	1	BIOL1450 CSKL1100 ENGL1400 HEDF1100 CHEM1450 PHYS1450 STAT1450 ENGL1500	Program
ARAB1101	Arabic Language Skills	2	None	Institutional
Total		15		

Level 4				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSBS 220	Applied Head and Neck Anatomy	3	DSBS210	Program
DSDS 221	Oral Biology	3	DSBS210 DSAS215	Program
DSPR 221	Dental Morphology and occlusion	4	DSBS210 DSAS215	Program
DSPR 223	Dental Biomaterials Science 1	2	DSAS215	Program
DSPC 224	Behavior, Communication and Culture	1	DSAS215 DSAS213	Program
DSPC 225	Disease transmission & Infection control	1	DSBS214 DSBS210 DSBS212	Program
DSBS 226	Basic Human Pathology	2	DSBS210 DSBS214 DSBS212	Program
Total		16		

Level 5				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSDS 310	Anesthesia and Pain Control	3	DSPR221 DSDS221 DSBS220	Program
DSPR 311	Preclinical Operative Dentistry 1	3	DSPR221 DSDS221 DSPR223	Program
DSPR 313	Dental Biomaterials Science 2	2	DSPR223	Program

DSDS 314	Oral Pathology 1	1	DSBS226 DSDS221 DSBS220 DSPC225	Program
DSBS 315	Basic Pharmacology 1	1	DSBS226 DSPC225 DSBS211 DSBS212	Program
DSPC 316	Cariology & Preventive Therapies	2	DSDS221 DSPR223	Program
DSDS 318	Maxillofacial Radiology 1	2	DSPR221 DSDS221 DSBS220	Program
ISLM1100	Introduction to Islamic Culture	2	None	Institutional
Total		16		

Level 6				
Code	Course name	CRH	Pre-requisites	Type of Requirements
DSDS 320	Basics of Oral Surgery	2	DSDS310 DSDS318 DSBS315	Program
DSPR 321	Preclinical Operative Dentistry 2	3	DSPR311 DSDS318 DSPR313	Program
DSDS 322	Introduction to Patient Management	2	DSDS310 DSBS315 DSPC224 DSDS318 DSDS314 DSPC316	Program
DSDS 323	Emergency Dental Care	2	DSDS310 DSDS314 DSBS315	Program
DSDS 324	Oral Pathology 2	3	DSDS314 DSDS318	Program
DSBS 325	Basic Pharmacology 2	1	DSBS315	Program
DSDS 328	Maxillofacial Radiology 2	2	DSDS318	Program
SKIL1120	Critical Thinking and Problem solving	2	SKLS1101	Institutional
Total		17		

Level 7				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSDS 410	Basic Clinical Oral Surgery	2	DSDS320 DSDS322 DSDS323 DSDS328 DSBS325 DSDS324	Program
DSPR 411	Clinical Operative Dentistry 1	3	DSPR321 DSDS322 DSDS323 DSDS328 DSBS325 DSDS324 DSPC316	Program
DSPR 413	Preclinical Endodontics 1	2	DSPR321	Program
DSPC 414	Fundamentals of Periodontology	3	DSDS221 DSDS322 DSDS328 DSBS325	Program
DSPR 415	Preclinical Removable Prosthodontics 1	2	DSDS221 DSPR321	Program
DSPR 416	Preclinical Fixed Prosthodontics 1	2	DSDS221 DSPR321 DSDS328	Program
DSAS 417	Dental Informatics	1	DSDS322 DSPR321 DSDS328	Program
DSDS 418	Radiologic Interpretation	1	DSDS324 DSDS328	Program
Total		16		

Level 8				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSDS 420	Advanced Clinical Oral Surgery	2	DSDS410 DSPC414 DSDS418	Program
DSPR 421	Clinical Operative Dentistry 2	2	DSPR411 DSDS418 DSDS410	Program

DSPR 423	Preclinical Endodontics 2	2	DSPR413 DSDS418	Program
DSPC 424	Clinical Periodontology 1	2	DSPC414 DSDS418 DSDS410	Program
DSPR 425	Preclinical Removable Prosthodontics 2	2	DSPR415 DSPR416 DSPC414	Program
DSPR 426	Preclinical Fixed Prosthodontics 2	2	DSPR416 DSPC414	Program
DSAS 426	Implant Dentistry	2	DSDS410 DSPC414 DSPR415 DSPR416 DSDS418	Program
DSBS 427	General Medicine and Surgery	1	DSBS220 DSBS226 DSDS322 DSDS410	Program
SKLS1102	Leadership and Team Work	2	SKIL1120	Institutional
Total		17		

Level 9				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSDS 510	Maxillofacial Surgery	2	DSDS420 DSBS427 DSAS426 DSPC424 DSBS325	Program
DSPR 511	Clinical Operative Dentistry 3	2	DSPR421 DSPC424 DSBS325	Program
DSPR 513	Clinical Endodontics 1	2	DSPR423 DSPR421 DSPC424 DSDS420 DSBS325	Program

DSPC 514	Clinical Periodontology 2	2	DSPC424 DSDS420 DSAS426 DSBS325	Program
DSPR 515	Clinical Removable Prosthodontics 1	3	DSPR425 DSDS420 DSPC424 DSBS325	Program
DSPR 516	Clinical Fixed Prosthodontics 1	3	DSPR426 DSDS420 DSPC424 DSBS325	Program
DSPC 517	Preclinical Pediatric Dentistry	2	DSAS426 DSPR426 DSPR425 DSPR421 DSBS427 DSPC424 DSPR423 DSDS420 DSBS325	Program
Total		16		

Level 10				
Code	Course name	CRH		
			Pre-requisites	Type of Requirements
DSPR 521	Clinical Operative Dentistry 4	1	DSPR511 DSPR513	Program
DSDS 522	Oral Medicine 1	2	DSDS418 DSBS325 DSDS510	Program
DSPR 523	Clinical Endodontics 2	1	DSPR513 DSPR511	Program
DSPR 525	Clinical Removable Prosthodontics 2	3	DSPR516 DSPC514 DSPR515	Program
DSPR 526	Clinical Fixed Prosthodontics 2	3	DSPR516 DSPC514	Program
DSPC 526	Research Methodology	2	DSAS215 DSPC517	Program
DSPC 527	Clinical Pediatric Dentistry 1	2	DSPC517 DSPR513 DSDS510 DSBS325	Program

DSPC 528	Geriatric Dentistry	2	DSDS322 DSDS510 DSPR515 DSPC514 DSDS224 DSPR511 DSBS325	Program
ARAB 1100	Arabic Writing Skills	2	ARAB1101	Institutional
Total		18		

Level 11				
Code	Course name	CRH	Pre-requisites	
			Pre-requisites	Type of Requirements
DSAS 611	Clinical Comprehensive Dentistry 1	5	DSDS510 DSPC528 DSPR521 DSPR523 DSDS522 DSPR525 DSPR526	Program
DSDS 612	Oral Medicine 2	2	DSDS522 DSPC528	Program
DSPC 613	Community Dentistry	2	DSPC526 DSPC527 DSPC528	Program
DSAS 615	Treatment Planning	2	DSPR521 DSPR525 DSDS522 DSPR523 DSPC527 DSPR526	Program
DSDS 616	Special Needs Dentistry	2	DSPC527 DSDS522 DSPC528	Program
DSPC 617	Clinical Pediatric Dentistry 2	1	DSPC527 DSDS522	Program
DSPC 619	Preclinical Orthodontics	2	DSPC527	Program
Total		16		

Level 12				
Code	Course name	CRH	Pre-requisites	
			Type of Requirements	
DSPR 621	Esthetic Dentistry	2	DSPR521 DSAS615	Program
DSAS 622	Clinical Comprehensive Dentistry 2	5	DSAS611 DSAS615 DSDS612	Program
DSPC 623	The practice of Dentistry in the Community	1	DSAS611 DSPC613 DSDS616 DSPC617	Program
DSPC 624	Dental Practice Management	2	DSAS417 DSPC613	Program
DSAS 625	Evidence Based Dentistry	1	DSPC526 DSAS615	Program
DSAS 626	Contemporary Dental Sciences	2	DSDS616 DSAS615	Program
DSPC 627	Clinical Pediatric Dentistry 3	1	DSPC617 DSPC619	Program
DSPC 629	Clinical Orthodontics	2	DSPC619 DSAS615	Program
Total		16		

Internship Program

The internship program is a one-year program in which the graduated students who completed all required tasks of graduation with BDS degree can continue their training under supervision of qualified staff. Graduates will be involved in managing more patients and develop their educational and clinical skills to have efficient, ethical, compassionate, and clinically competent. Students will gain more experience and master the skills of managing different types of patients especially those with special needs. Students will have the opportunity to do part of their training outside the college to be exposed to different environment in the society.

(Please fill the following for each course mentioned above in each level):

Course Code: ENGL 1400	Course Name: English Language (1)
Course Description: This course serves as a foundation English course for students in the Medical, Dentistry, and Nursing Colleges aiming for a CEFR B1 level. The course focuses on communicative interaction offering students greater exposure to authentic texts to improve proficiency in all four-language skills. Upon successful completion, students will progress to ENGL1500.	
Course Code: BIOL 1450	Course Name: Biology
Course Description: Biology course introduces studying general cell biology and its structure and function, molecular study of nucleic acids, basis of genetics and endocrine system in human body.	
Course Code: CSKL1100	Course Name: Computer Skills
Course Description: <ul style="list-style-type: none"> The course uses both lectures and practical application to introduce students to the basic computer concepts in hardware, software, networking, computer security, databases, and websites. Applications widely used to include word processing, spreadsheets, databases and presentation, are studied. The course will also help students develop critical thinking skills as well as learning terminology and problem-solving techniques to solve IT problems. The course will focus on performing tasks that simulate practical and professional situations. 	
Course Code: SKLS1101	Course Name: University Skills
Course Description: يهدف مقرر المهارات الجامعية إلى تعليم الطلبة المهارات الأساسية التي يتوجب على الطالب الجامعي معرفتها لكل التخصصات كما يتعلم الطالب بهذا المقرر كيفية طرق الاستذكار الفعال وكيفية عمل خريطة معرفية للمعلومات والمهارات بالإضافة لتعليم مهارات البحث العلمي ومهارات التفكير البسيط والمركب فنجد الطالب في نهاية الفصل الدراسي أصبح يتقن عدد كبير من المهارات التي تساعد لإنهاء مرحلته الجامعية والتهيئة لاستقبال سوق العمل.	
Course Code: HEDF1100	Course Name: The Health Education and Fitness
Course Description: يتضمن المقرر المفاهيم والمبادئ الأساسية لمعلومات صحية وبدنية، وما يرتبط منها من مهارات تتعلق بالصحة الشخصية والغذائية والبدنية والوقائية والنفسية والانجابية والاسعافات الأولية، مع التركيز على المواقف الحياتية بهدف إثارة دافعية الطلاب وتشويقهم لعملية التعلم من خلال الإطار العام للمقرر، ومعايير وضوابطه. ومن الناحية العملية: يتضمن عناصر اللياقة البدنية المرتبطة بالصحة وكيفية قياسها وتنميتها، وأهمية ممارسة التمرينات البدنية للمحافظة على الصحة باستخدام الأجهزة الحديثة. وممارسة الأنشطة الرياضية المختلفة مثل كرة القدم، تنس الطاولة، كرة السلة، كرة الطائرة، والسباحة.	

Course Code: ENGL 1500

Course Name: English Language (2)

Course Description:

This integrated English course aims to further strengthen medical students' grasp of a wide range of basic medical terminology, and help them solidify their competence in the four language skills writing, reading, listening & speaking, leading them to achieve the CEFR intermediate proficiency (B1) level. The cultivation of study skills, critical thinking, and the development of autonomous learning integrated in the course are key academic skills that will empower them to continue to function as independent learners.

Course Code: CHEM 1450

Course Name: Chemistry

Course Description:

The course presents different topics of organic chemistry including hydrocarbons, their composition, classification, chemical bonding, and physical properties. It also concerns with aromaticity, Hybridization, Isomerism, functional groups, naming of organic compounds, and many important organic reactions.

It also highlights the principals of biochemistry such as the structure of carbohydrates, proteins and nucleic acids, and it discusses their general classification and reactions.

Course Code: PHYS 1450

Course Name: Physics

Course Description:

1. This course introduces students to a physical description of living systems. The concepts of force, energy, oscillations, waves, and image formation are presented, with a view to their relevance for living systems, especially in the human body.

2. The concepts and quantitative methods of physics are employed to understand the workings of the human ear, the human eye, and human metabolism.

3. The concepts and quantitative methods of wave motion and image formation are specifically applied to medical imaging techniques (e.g., ultrasound sonography, X-ray imaging, and CT-, PET-, and MRI-scans), to learn of their strengths, weaknesses, and ranges of applicability.

Course Code: STAT 1450

Course Name: Biostatistics

Course Description:

This course is designed to prepare students for medical health specialties. Descriptive Statistics, Quantitative and Qualitative data, Graphic presentation. Measures of central tendency, measures of dispersion. Probability rules, Conditional Probability - specificity, sensitivity and Bayes' rule, Predictive value positive and negative- pdf, Binomial distribution. Poisson distribution. Normal distribution- Sampling for mean and proportion-Confidence intervals of one and two population means and proportions. Tests of Hypothesis about means and proportions and paired data.

Course Code: DSBS 210

Course Name: Gross Anatomy and embryology

Course Description:

This course aims at giving students in dentistry a useful foundation in basic gross anatomy and embryology upon which they will be able to build the further knowledge they will learn in later years so as to make them better practitioners for tomorrow. The course also aims at introducing the students to new and advanced learning styles through group discussions, presentations, increased reliance on self-learning, and writing assignments.

Course Code: DSBS 211

Course Name: General Human Biochemistry

Course Description:

This course is dealing with structure and properties of biomolecules, such as amino acids, proteins, carbohydrates, lipids and nucleic acids and their pathways inside the body.

Course Code: DSBS 212

Course Name: General Human Physiology

Course Description:

This course is dealing with general human physiology and normal functioning of the different systems of the body and their mechanisms.

Course Code: DSAS 213

Course Name: Ethics & Legal Issues in Dentistry

Course Description:

Ethics are moral principles that govern a person's behavior or the conducting of an activity. Dental Ethics are a system of principles governing dental practice; a moral obligation to render the best possible quality of dental service to the patient and to maintain an honest relationship with other members of the profession and society. The aims of this dental ethics course for students to heighten their ethical and professional responsibility, to promote their ethical conduct and professionalism in dentistry, to have advanced dialogue on ethical issues, and to stimulate reflection on common ethical problems in dental practice.

The duration of the course is 15 weeks. This course consists of classroom lectures, classroom activities such as lecture topic discussion, case study discussion, role play and assignments, given to students to complete.

Course Code: DSBS 214

Course Name: Infection and host defense

Course Description:

Host defense and infection is one of the essential and basic courses in the medical curriculum. It is briefly taught as a semester course and has further integration with infection control in dental surgery. This subject has greater emphasis on the infectious diseases and pathogens associated with dental practice. Numerous pathogens have been identified causing dental infections in the last decade alone. The diagnosis and treatment of these pathogens is vital in the management of dental infectious diseases. These pathogens can also easily be transmitted from dental practitioners to patients and vice versa. This course will provide students with the sound academic and practical background knowledge of all the clinically relevant pathogens before they progress towards the infection control course in dental practice. This course will start with the basic classification and background of all microbial pathogens, and it will then describe each class of pathogens separately. It will then move on to the basic concepts of immunology followed by the bacterial, viral, and fungal pathogenesis and how they replicate. The lectures will then focus on bacterial, viral and fungal pathogens with special emphasis on oral microbiology. The students will also get acclimatized to the laboratory environment and will learn the usage microscope and perform basic procedures such as gram stains. The students will also be able to identify basic structure of bacterial and fungal pathogens under the microscope, especially those related to oral flora and oral infections.

At the end of this course the students should have the understanding of the following

- Basic concepts of microorganisms
- Classification of bacterial pathogens
- Bacterial and viral pathogenesis
- Basic concepts of Immunology
- knowledge of clinically relevant oral pathogens
- Microbial Flora with special emphasis on oral flora
- Concept of vaccination

Course Code: DSAS 215

Course Name: Introduction to Dental Sciences

Course Description:

This course introduces the student to the various specialties in dentistry. The course gradually exposes the student to various streams in the field of dentistry with each subject presented by specialist from the same field. It includes introduction to restorative dental science, prosthodontics, orthodontics, oral surgery, endodontics, periodontics, pediatric dentistry and all related specialties.

Course Code: ARAB1101

Course Name: Arabic Language Skills

Course Description:

يتكون هذا المقرر من أربع وحدات: الوحدة الأولى (علامات الإعراب الأصلية والفرعية)، الوحدة الثانية (الجملة الفعلية، واسم الفاعل، واسم المفعول، والمصدر)، الوحدة الثالثة (المبتدأ والخبر، إن وأخواتها، كاد وأخواتها، ظن وأخواتها)، والوحدة الرابعة (المفعول به، والمفعول المطلق، والمفعول لأجله، والحال، والتمييز).

Course Code: DSBS 220

Course Name: Applied Head and Neck Anatomy

Course Description:

Education remains the major tool for the community development, investment in human resources through different form of education, promote predictability and ensure higher performance.

The discipline of anatomy has a pivotal influence on the history of medicine as it serve as almost as the language of medicine. Teaching anatomy is widely recognized as a corner stone in the education pf physician.

Anatomy is essential for all dentist who perform an invasive procedure on the patient. Carries out emergency procedure, examine radiological imaging, perform physical examination on a patient, refers to another doctors. Or explain procedure to a patient.

The applied head and neck anatomy course is aim at giving the college of dentistry students at Dar Al Uloom university detailed information regarding the structures present in the head and neck region the course compromised of integrated lectures and laboratory sessions. The course also aims to introduce students to various important structures related to the cranio-facial region that might influence oral structures including teeth. The neuroanatomy, Related embryology, blood supply and muscles related to the region are studied in details in this course.

Course Code: DSDS 221

Course Name: Oral Biology

Course Description:

This course is provided by the “Surgical and Diagnostic Sciences” department during the second semester of the second year of the BDS program. It is a 3 credit hours course, consisting of two main components: didactic and practical.

This course teaches students about the structure and cellular features of oral tissues. Teeth development and different stages involved in the tooth formation. Structure and function of different oral tissues will be studied. More emphasis will be given to the salivary glands and their structure and function and oral mucosal tissues, temporomandibular joint and bone.

Course Code: DSPR 221

Course Name: Dental Morphology and occlusion

Course Description:

Dental Morphology & Occlusion is a branch of dentistry that provides one of the basic components of skills needed to practice all aspects of dentistry. The course will stress on nomenclature and morphological concepts of the teeth. It introduces the students to the morphology and anatomy of each permanent teeth within the oral cavity, the inter-arch and intra-arch relationship between the teeth, the morphology and anatomy of TMJ and muscles of mastication and replicating the anatomy of individual teeth in wax for future application to fixed prosthetics and restorations. In addition to the development of occlusion.

This course is a continuous course that focuses on theoretical knowledge of the anatomy of teeth and related structures. The practical sessions focus on drawing and carving of teeth on wax blocks. These skills are important to future practice of dentistry especially in diagnosis and in placement of direct and indirect restorations."

Course Code: DSPR 223

Course Name: Dental Biomaterials Science 1

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the second semester of the second year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and practical.

This course introduces the basis of Dental Biomaterials to students, facilitates the study of the materials, physical and chemical properties that are related to selection of these products by the students in their future clinical work. Also, it describes the basic understanding of the theoretical and material principles of materials used in the field of dentistry.

This course allows students to demonstrate clear understanding of what dental materials are?, what the different types of properties to understand the dental materials, carry out basic mixing and setting of gypsum to get ready for future laboratory work, Recognize the advancements in the field of dental materials and how they can be used in their future clinical practice.

Course Code: DSPC 224

Course Name: Behavior, Communication and Culture

Course Description:

This course deals with the behavior of societies their cultures, and processes which can affect specific behaviors. The course will address the behavioral aspects in dentistry, and particular emphasis will be placed on understanding human behavior especially in patient management and the ethical responsibility inherent within the scope of the dental profession. Selected concepts from the psychological and social sciences are presented in a behavioral frame of reference and applied to the consideration of specific problems.

Course Code: DSPC 225

Course Name: Disease transmission & Infection control

Course Description:

This course accustoms the student about the spread of infection and cross contamination. The various modes of transmission of disease as well as means of controlling shall be discussed. The students develop the concept of universal precaution for infection control meaning 'considering every patient as infectious. The module will help young professionals to gain an overview of the key elements of infection control, understand how infections might occur and how good practice can reduce their likelihood and prevent their spread.

Course Code: DSBS 226

Course Name: Basic Human Pathology

Course Description:

This course explains the cause and the manifestations of diseases that affect the human body and are of relevance to dentistry.

Course Code: DSDS 310

Course Name: Anesthesia and Pain Control

Course Description:

This course is a fundamental basis of local anesthesia that is essential for practicing pain control in dentistry.

All aspects of local anesthesia are explored from pharmacology to anatomy and how to manage dental patients requiring local anesthesia.

Practical sessions: As with any hands-on training course, the student will be trained with competency, and ultimately proficiency, in the administration of local anesthesia by practicing anesthesia technique on simulation models. Thus, students will be well trained on how to administer local anesthesia when they move to their clinics in higher academic levels.

By the end of this course, the students should be able to:

1. Possess basic knowledge about anatomy of head and neck including cranial nerves and its clinical implications.
2. Understand the basic mechanism of how local anesthesia works.
3. Describe the different techniques of LA injection for maxillary and mandibular teeth.
4. Choose the appropriate LA technique for effective pain control.
5. Possess the knowledge about the systemic and local complications of local anesthesia.

Course Code: DSPR 313

Course Name: Dental Biomaterials Science 2

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the second semester of the second year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and practical.

This course is an advancement on the previous Dental Biomaterials 1 course, facilitates and focuses more on the study of the materials mainly used in the clinics. Manipulation, indications, contraindications of different Dental materials clinically. Also, it describes the basic understanding of the theoretical and material principles of materials used in the field of dentistry.

This course allows students to demonstrate clear understanding of what the basic dental materials used in the clinics. What are the manipulation rules for Dental Amalgam, Dental Composites and Dental Cements, How the materials should be used in a clinical environment.

Course Code: DSDS 314

Course Name: Oral Pathology 1

Course Description:

This course provides the students with basic knowledge related to the nature and identification of the disease process relevant to dentistry. The basic cell and tissue response to disease processes are covered. It also deals with the concepts of pathogenesis, morphologic changes and functional consequences of the pathologic processes. Gross and microscopic features of various pathologic conditions of organ systems, are covered in this course such as, developmental defects, oral infections, pulp & periapical pathoses, salivary gland disease & pigmented lesions of oral & para oral regions. The course also covers forensic odontology, which is concerned with introduction, scope & various tools of identification of dental evidence in criminal or civil legal proceedings in the interest of justice.

Course Code: DSDS 318

Course Name: Maxillofacial Radiology 1

Course Description:

This course provides students with basics of dental imaging and radiographic anatomy, which helps in diagnosis and treatment planning. This course is considered as an introductory course that covers radiation physics, processing of dental radiographic films, image characteristics, radiographic techniques, radiation biological effects and protection. The course will help students to understand and interpret the normal and abnormal structures on radiographs. Hands on X-ray machine will be demonstrated to further enhance the concepts of the students.

It is a 2-credit hour course, consisting of two main components, didactic and practical.

Course Code: DSPR 311

Course Name: Preclinical Operative Dentistry 1

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the first semester of the third year of the BDS program. It is a 3 credit hours course, consisting of two main components: didactic and practical.

The didactic component introduces the students to restorative armamentarium, principles of cavity preparation, as well as restorative procedures using the currently available restorative materials. The practical component intends to introduce the students to the pre-clinical setting and is conducted in the dental and phantom head laboratories. During the practical sessions, the students will apply their acquired knowledge on different types of cavity preparations and restorative procedures on ivory teeth. This practical component is particularly important in training the students for correct dental ergonomics, usage of dental armamentarium and in manipulation of different restorative materials. This course provides the students with the correct foundation for operative dentistry, basic clinical skills and clinical judgment, as well as prepares the students for the dental clinical settings.

Course Code: DSBS 315

Course Name: Basic Pharmacology 1

Course Description:

The study of pharmacology today is actually the study of medicine of tomorrow.”

Human pharmacology is the science of effects of drugs on humans, and serves as the foundation of modern medicine. As a discipline, it connects science, medicine, and health, and creates a framework for understanding how the human body adapts to the effects of drugs in stresses and disease. Human pharmacology is closely related to Physiology, Physiology is the study of function, and Pharmacology is a study of drug actions, there is an intrinsic link between action and function. The study of human pharmacology integrates knowledge across many levels, including biochemistry, cell physiology, organ systems, and the body as a whole. Contemporary research in human pharmacology explores new ways to maintain or improve the quality of life, development of new medical therapies and interventions, and charting the unanswered questions about how the human body works.

The majority of our students aspire to be professionals in Dentistry. We provide a rigorous but flexible undergraduate curriculum and an engaging learning environment to help our students reach their goals. We believe that the value of a degree in human pharmacology is that it prepares students to be critical thinkers who can come to independent rational conclusions regarding their own personal health and who can use the guiding principles of scientific thinking and inquiry as a model for understanding the world around them. We think our students graduate with the best education available in the field of human pharmacology, and that they are well prepared for future learning opportunities. The department offers a well-designed and comprehensive program to the aspiring dentists.

Course Code: DSPC 316	Course Name: Cariology & Preventive Therapies
Course Description: This course is designed to bring students to the current knowledge in dental caries, classification of dental caries, etiology of dental caries, microbiology of dental caries, epidemiology of dental caries, saliva and dental caries, dental plaque, diet nutrition and dental caries. It introduces students to different methods of caries diagnosis and treatment. The course outlines the preventive strategies to avoid dental caries and discusses the principles of health promotion in terms of caries prevention.	
Course Code: ISLM1100	Course Name: Introduction to Islamic Culture
Course Description: يتناول هذا المقرر التعريف بالثقافة الإسلامية، ومصادرها، وخصائصها، وبالعقيدة الإسلامية، وأركانها، ونواقضها.	
Course Code: DSDS 320	Course Name: Basics of Oral Surgery
Course Description: This course is intended to cover the basic principles of clinical oral surgery and exodontia, dentoalveolar complications and different maxillofacial pathological conditions, principles of some surgical procedures and medically compromised patients. In addition, the course aims at elimination of disease, prevention of disease, removal of damaged or redundant tissue, improvement of function and esthetics.	
Course Code: DSPR 321	Course Name: Preclinical Operative Dentistry 2
Course Description: This is the second preclinical restorative dentistry course. This course is provided by the "Restorative and prosthetic Dental Science" department in level 6 of BDS program. It is a 3 credit hours course, consisting of two main components: didactic and practical. On the didactic part of the course, the students will gain full understanding of the carious process and describe the methods of diagnosis and management of the early carious process. Students will also learn correct manipulation and restorative procedures of direct and indirect esthetic restorations. They will also manage more complicated restorative cases, such as the management of deep carious lesions, pulpal protection, and restoration of badly destructed teeth. On the practical part of the course, the students will apply this information on preparing and restoring acrylic teeth in the phantom head laboratory settings. This course also puts emphasis on the techniques for placement more complex amalgam restorations as well as of direct anterior and posterior esthetic restorations.	
Course Code: DSDS 322	Course Name: Introduction to Patient Management
Course Description: This is the first clinical course where students are exposed to patients. This course deals with training the students in developing a dentist and patient relationship and generally evaluating the patient, by taking a detailed case history and conducting proper examination and requesting proper investigations to reach the differential diagnosis. Further, the students will recognize normal and abnormal tissues clinically with proper intra and extra oral examination on a patient.	

Course Code: DSDS 323

Course Name: Emergency Dental Care

Course Description:

What is the main purpose for this course?

The student should be able to:

1. Possess sound knowledge about the systemic health of patient, dental management of medically compromised patients, including detailed history of physical examination and diagnosis, medical investigation and patient referral.
2. Patient referral.
3. Diagnose the problem and plan the treatment accordingly.
4. Recognize the emergency conditions and alert emergency team and management.
5. Understand basic life support and advanced cardiac life support.
6. Drug prescription, management of complication and follow up.

Course Code: DSDS 324

Course Name: Oral Pathology 2

Course Description:

This course is the second in oral pathology field. It is designed to introduce the student to the knowledge of oral oncology, benign and malignant neoplasia of the jaws and relevant lesions and conditions with impact on oral health.

The course introduces the concepts of oral cancer screening.

It enables the student to differentiate between various oral and maxillofacial cysts and neoplasms and diseases.

It also exposes the student to potentially malignant lesions and conditions.

The student is also introduced to salivary gland and bone diseases and neoplasms.

Course Code: DSDS 328

Course Name: Maxillofacial Radiology 2

Course Description:

This course is a continuation of the previous oral and maxillofacial imaging course which addresses more complex radiographic techniques including panoramic images and advanced imaging techniques showing different pathological lesions depicted in radiography. The students will perform these radiographic techniques on patients. Further, the course will teach the interpretation of more advanced images and the students will develop the skills of identifying complex abnormalities, fractures associated with maxillofacial structures, congenital anomalies in these images. The rationale behind digital imaging will also be taught.

It is a 2-credit hour course, consisting of two main components, didactic and practical.

Course Code: DSBS 325

Course Name: Basic Pharmacology 2

Course Description:

The study of pharmacology today is the study of medicine of tomorrow.”

Human pharmacology is the science of effects of drugs on humans and serves as the foundation of modern medicine. As a discipline, it connects science, medicine, and health, and creates a framework for understanding how the human body adapts to the effects of drugs in stress and disease. Human pharmacology is closely related to Physiology, Physiology is the study of function, and Pharmacology is a study of drug actions, there is an intrinsic link between action and function. The study of human pharmacology integrates knowledge across many levels, including biochemistry, cell physiology, organ systems, and the body as a whole. Contemporary research in human pharmacology explores new ways to maintain or improve the quality of life, development of new medical therapies and interventions, and charting the unanswered questions about how the human body works.

The majority of our students aspire to be professionals in Dentistry. We provide a rigorous but flexible undergraduate curriculum and an engaging learning environment to help our students reach their goals. We believe that the value of a degree in human pharmacology is that it prepares students to be critical thinkers who can come to independent rational conclusions regarding their own personal health and who can use the guiding principles of scientific thinking and inquiry as a model for understanding the world around them. We think our students graduate with the best education available in the field of human pharmacology, and that they are well prepared for future learning opportunities. The department offers a well-designed and comprehensive program to the aspiring dentists.

Course Code: SKIL1120

Course Name: Critical Thinking and Problem solving

Course Description:

يقدم هذا المقرر أهم المهارات الأكاديمية من معالجة المعلومات وتوظيفها في عملية التعلم، وتعريف التفكير تعلم مهاراته المختلفة الناقد والابداعي ومهارات تنويع التفكير وحل المشكلات واتخاذ القرار، ومهارات وفنيات البحث العلمي والبحث عن المعلومات والالتزام بأخلاقيات كتابة البحث العلمي بجميع عناصره.

Course Code: DSDS 410

Course Name: Basic Clinical Oral Surgery

Course Description:

This course is intended to cover the basic principles of clinical oral surgery and exodontia, dentoalveolar complications and different maxillofacial pathological conditions, principles of some surgical procedures and medically compromised patients.

In addition, the course aims at elimination of disease, prevention of disease, removal of damaged or redundant tissue, improvement of function and esthetics.

Course Code: DSPR 411

Course Name: Clinical Operative Dentistry 1

Course Description:

This course is first restorative course where students are exposed to patients.

Students will apply their knowledge and experience from other courses to perform actual clinical work on live patients. They will carry out complete patient assessment, sequential treatment planning, and manage simple restorative cases. This course will build up the skills in previous courses and reinforce the professionalism. Attention is given to efficient utilization of the clinical facilities and the need for proper patient keeping. All students 'clinical performance is carried out under close and direct supervision.

Course Code: DSDS 418

Course Name: Radiologic Interpretation

Course Description:

This course is a continuation of the previous oral and maxillofacial imaging course which addresses more complex radiographic techniques including panoramic images, ULTRA SOUND CT scan and MRI, PET, SPECT for different pathological lesions depicted in radiography. The students will learn how to interpret these images in different pathological conditions. It also covers the intervention radiology mainly for salivary glands and the use of radiation in management of tumors in the head and neck region. Advantages and disadvantages related to digital imaging is a part and parcel of the course.

Further, the course will teach the students with the skills of identifying complex abnormalities, fractures associated with maxillofacial structures, congenital anomalies in these images. The students will learn how to start interpreting the CMS & PANORAMIC RADIOGRAPHS with associated pathological condition

It is a 1-credit hour course, consisting of two main components, didactic and practical.

Course Code: DSPR 413

Course Name: Preclinical Endodontics 1

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the first semester of the fourth year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and practical.

This course introduces principles of endodontics to students with dental materials background and facilitate the study of endodontic materials, physical and chemical properties that are related to selection of these products by the students in their clinical work. It also describes the basic understanding of the theoretical and biological principles of every endodontic clinical procedure.

This course allows students to demonstrate clear understanding of the morphology of the root canal anatomy, carry out fundamental operative procedures in endodontics, recognize the dental materials and instruments used in endodontics and should be able to demonstrate access opening, root canal preparation and obturation in natural and artificial teeth.

Course Code: DSPC 414

Course Name: Fundamentals of Periodontology

Course Description:

Periodontology or periodontics is the specialty of dentistry that studies supporting structures of teeth, as well as diseases and conditions that affect them.

The course is 3 credit hours that is given in the 4th year first semester and consists of two lectures per week and one lab session. The students will also have their project presentations at the end of the course.

The objectives of this course is for students to have the knowledge of normal periodontium, epidemiology of periodontal diseases, a etiology and pathogenesis of periodontal diseases, basic immunological reactions, periodontal armamentarium, different diagnostic methods and compare between different measures of plaque control.

For project presentations, students will work in teams and have the opportunity in the course to prepare a project regarding the topics that were covered within the course and that maybe used to serve the community. They will then present their project to the class. Students will also be learning the manual skills needed during their lab session related to periodontal treatment.

Course Code: DSPR 415

Course Name: Preclinical Removable Prosthodontics 1

Course Description:

In this course the students are introduced to the basic principles of treating totally edentulous patients with removable complete dentures. The course provides knowledge of the basic principles in the fabrication of removable complete dentures with focus on understanding the physical and biomechanical characteristics of the denture components. Emphasis will be given to the laboratory procedures involved in the construction of complete dentures. The aim is to make the students aware of all the laboratory procedures involved in the construction of complete dentures and to lay a strong foundation of complete denture fabrication before the students enter into the clinical course. All the prerequisite steps for making a complete denture will be discussed and demonstrated, and the students will be directed to perform the practical exercises. The exercises may include impression making and pouring of cast, fabrication of custom trays, record bases and wax occlusal rims, mounting of trial dentures, teeth arrangement, wax up of trial dentures, flasking of trial dentures and finishing and polishing of the dentures.

Course Code: DSPR 416

Course Name: Preclinical Fixed Prosthodontics 1

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the first semester of the fourth year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and practical.

- What is the main purpose for this course? Upon completion of this course the student should be able to:
 1. Recognize simulated clinical and laboratory steps related to fixed prosthodontics procedures.
 2. Recognize basic fundamentals of occlusion and articulation.
 3. Diagnose clinical case scenarios to reach an appropriate treatment plan.
 4. Demonstrate manual Dexterity, eye-hand coordination to perform laboratory and simulated clinical procedures with precision.
 5. Demonstrate sufficient manual dexterity to perform teeth preparation using mirror imaging.

Course Code: DSAS 417

Course Name: Dental Informatics

Course Description:

Dental informatics is the application of computer and information science to improve dental practice, research, education and management. The course will introduce students to the definition of this emerging discipline and will explain how dental informatics improved the field of dentistry. The course will start with an overview of different terminologies in the field of informatics then will discuss in details the informatics applications that improved education and dental practice, including patient Digital imaging and image processing, computer-based dental records, clinical decision support system and tele dentistry. The course will introduce students to database and research specific software and understanding the requirements in designing an information management system for hospitals.

Course Code: DSDS 420	Course Name: Advanced Clinical Oral Surgery
Course Description: <p>This course is provided by the “Surgical and Diagnostic Sciences” department during the second semester of the 4th year of the BDS program. It is a 2 credit hours course, consisting of two main components: theory and clinics.</p> <p>Clinical sessions begin to further the student’s theoretical knowledge and their skills in a clinical setting.</p> <p>Topics in this course will include:</p> <ul style="list-style-type: none">□ Diagnosis and management of maxillofacial injuries, fundamental principles of space infections, conscious sedation techniques, cleft lip and palate and grafts.	
Course Code: DSPR 421	Course Name: Clinical Operative Dentistry 2
Course Description: <p>This course is the second clinical restorative course where the students are entitled to apply their acquired knowledge on actual clinical situations.</p> <ul style="list-style-type: none">• On the didactic part, the course focuses more specifically on the fundamentals of esthetics in restorative dentistry, management of restorative failures, use of laser in restorative dentistry and on restorations of endodontically treated teeth.• On the clinical level, the students will carry out complete patient assessment, sequential treatment planning and manage different restorative cases. This course will build up on the previously acquired skills and reinforce the professionalism.• At all time, attention is given to efficient utilization of the time, clinical facilities and to patients’ record keeping. <p>All students clinical performance is carried out under close and direct supervision.</p>	
Course Code: DSPR 423	Course Name: Preclinical Endodontics 2
Course Description: <p>This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the second semester of the fourth year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and practical.</p> <p>This course introduces principles of endodontics especially dealing with multi canals as compared to the first course DSPR 413. It also describes the basic understanding of the theoretical and biological principles of Endo-perio lesions and pulp reaction to caries etc. Also, how to diagnose cracks and fractures with different treatment options. It also explains the concept of restoration of endodontically treated tooth along with different retreatment procedures.</p> <p>This course allows students to demonstrate clear understanding of the morphology of the root canal anatomy, carry out fundamental operative procedures in endodontics, recognize the dental materials and instruments used in endodontics and should be able to demonstrate access opening, root canal preparation and obturation in multi canal natural and artificial teeth.</p>	

Course Code: DSPC 424	Course Name: Clinical Periodontology 1
Course Description: This course follows the preclinical Periodontics course where students learnt the basics of Periodontology and got the skills of instrumentation and scaling. This course consists of didactic and clinical components which cover the etiology, pathogenesis and the diagnosis of periodontal diseases. More attention will be given to the clinical applied aspects of the periodontal diseases. Students will perform in the clinic's periodontal examination and charting, diagnosis, treatment planning and treatment of patients with early periodontal diseases.	
Course Code: DSPR 425	Course Name: Preclinical Removable Prosthodontics 2
Course Description: This course is a continuation of the course Preclinical Removable Prosthodontics 1. The students will perform the laboratory procedures for constructing removal partial dentures to restore missing teeth in the oral cavity. The students will learn about surveying partially edentulous casts and designing removable partial dentures based on the Classification and the condition of the remaining teeth and oral structures. More attention will be given to challenging denture designs.	
Course Code: DSPR 426	Course Name: Preclinical Fixed Prosthodontics 2
Course Description: This preclinical course is a continuation of the previous preclinical fixed prosthodontics where students apply the preclinical aspects of managing patients requiring fixed dental prostheses. Pre-Clinical component shall include various Phantom head exercises that will prepare the student for next clinical level.	
Course Code: DSAS 426	Course Name: Implant Dentistry
Course Description: This course is designed to provide the graduating dental students with basic knowledge of the variable aspects of modern dental implantology including the rationale of dental implantology, history and development, bone & soft tissue-implant interface, osseointegration, biomaterials, surface modification of dental implants, variable designs of implants, implant components, surgical anatomy in relation to dental implants, case selection for implant treatment, treatment planning, Implant flap designs & suture materials & suturing technique, Implant placement surgical protocol, Implant impression techniques, Implant occlusion & prosthetic part of implant placement, Implant complications & maintenance. The practical component of this course includes discussion about Implant components & its functions, Implant surgical instruments, demonstration of flap designs, suturing techniques & materials, surgical Implant placement, Implant impression techniques, fabrication of Provisional restoration. The students are trained to perform & show the different flap designs & suturing techniques. The students are trained to present and submit the assignments which help them comprehend their knowledge on various concepts related to implants.	

Course Code: DSBS 427

Course Name: General Medicine and Surgery

Course Description:

This course is designed to give students an overview of the different specialties such as general medicine and surgery, which will be beneficial for their dental practice. The teaching, which consists mainly of theoretical part (lectures), will cover the diagnosis, approach, management and Complications for cases which they will encounter as they enter the dental field. Concentration will be on important and relevant human diseases and to gives them considerable knowledge of the general surgery principles in special surgical areas. Knowledge of the topics that is related to human diseases is essential for satisfactory dental treatment and advice. Students will be familiar with sufficient knowledge to recognize problems in the medical history of patients about to undergo dental treatment and to take the appropriate action to provide a quality care, in addition to understand when referral for complex cases is indicated.

Course Code: SKLS1102

Course Name: Leadership and Team Work

Course Description:

يعد هذا المقرر تهيئة للطلبة لممارسة الادوار القيادية وتحمل المسؤولية وتنمية المهارات العليا للعمل الجماعي وتكوين فرق العمل الفعالة، كما يقدم المقرر طرق نموذجية لحل صراعات العمل ويساعد الطلبة في إعداد خطة زمنية جيدة لإدارة الوقت.

Course Code: DSDS 510

Course Name: Maxillofacial Surgery

Course Description:

Clinical sessions begins to further the students theoretical knowledge and their skills in a clinical setting.

Topics in the course will include:

- Diagnosis and management of maxillofacial injuries, fundamental principles of space infections, conscious sedation techniques, cleft lip and palate, grafts.

Course Code: DSPR 511

Course Name: Clinical Operative Dentistry 3

Course Description:

This course finalizes the didactic component of operative dentistry curriculum. It aims at reinforcement of the previous knowledge gained in the early operative dentistry courses and update of the students with newly developed restorative materials, concepts and techniques. The clinical sessions are directed towards the clinical application of the principles of operative dentistry by performing different kinds of cavity preparation and direct and indirect restoration. In addition, the students will be introduced to various treatment modalities for the anterior and posterior teeth. All students' clinical performance is carried out under close and direct supervision.

Course Code: DSPC 517

Course Name: Preclinical Pediatric Dentistry

Course Description:

This course is an introduction to the fundamentals of pediatric Dentistry. It is designed to bring students closer to the current knowledge in management of conditions related to the dentition of children. The students get to familiarize themselves with the concept of prevention and restoration of dentition among children. Students shall also have to demonstrate psychomotor skills necessary for diagnosing and treating dental caries in primary, mixed as well as permanent dentition that is applicable to children. Furthermore, students also conceptualize the rationale of preservation of dentition through pulp therapy in children as well as space maintenance in children resulting from early tooth loss.

Course Code: DSPR 513

Course Name: Clinical Endodontics 1

Course Description:

This course is provided by the “Restorative and Prosthetic Dental Sciences” department during the first semester of the fifth year of the BDS program. It is a 2 credit hours course, consisting of two main components: lectures and clinical.

This is the first clinical endodontics course of the curriculum. It builds on previously acquired knowledge from the pre-clinical courses and provides further learnings related to the pathology of the pulpal tissues and its clinical manifestations.

The didactic part of the course focuses on diagnosis, case selection and treatment planning as well as reviewing clinical treatment steps. Pulpal and endodontic emergencies and differential diagnosis of the pulpal pathology will also be taught. Additionally, the interrelationship between pulpal and periodontal disease will be addressed.

The clinical part of the course involves providing non-surgical endodontic treatment on single rooted and bi-rooted teeth in carefully selected patients and rotary instrumentation training on extracted teeth.

Course Code: DSPC 514

Course Name: Clinical Periodontology 2

Course Description:

This course consists of a didactic and clinical component with four credit hours. It will cover:

1. The treatment of different types of periodontal diseases.
2. Introduction to the surgical approaches in the management of moderate to advanced periodontal disease.

Course Code: DSPR 515	Course Name: Clinical Removable Prosthodontics 1
Course Description: <p>This course provides the students with clinical and laboratory aspects of managing patients in need of complete removable prosthesis. Students treat a clinical case of full dentures starting from preparation procedures till the delivery of denture. The students must obtain specific competencies in making removable complete dentures for completely edentulous patients.</p> <p>The clinical component shall include case selection, case history writing, treatment planning primary and final impression procedures, Jaw relation procedures, try in of trial waxed dentures, denture delivery and follow up procedures.</p> <p>The practical component includes pouring of casts, fabrication of special trays, denture base fabrication, and fabrication of wax rims and mounting. Students will do the laboratory work on their own under the guidance of the instructors after each clinical step</p> <p>All students shall maintain a log book to record all the clinical and laboratory steps carried out during the fabrication of the prosthesis.</p>	
Course Code: DSPR 516	Course Name: Clinical Fixed Prosthodontics 1
Course Description: <p>This course is divided into theoretical and clinical components. The theoretical component addresses the different aspects for the diagnosis, management, and treatment of patients with missing or damaged teeth.</p> <p>The clinical component is the first clinical course in fixed prosthodontics. It is a clinical setting in which the student should have an opportunity to perform the clinical procedures commonly associated with patients requiring fixed prosthodontics treatment.</p>	
Course Code: DSPC 527	Course Name: Clinical Pediatric Dentistry 1
Course Description: <p>The course consists of didactic and clinical components. The didactic component addresses the different aspects of diagnosing, managing and treating the dental problems of young children. In the clinical settings student are required perform their clinical tasks of different restorative procedures as well as the application of preventive measures including fluoride application and placement of fissure sealants. The student should have an opportunity to perform the clinical procedures commonly associated with children's dentistry. The concept of comprehensive care will be adopted so that the student develops an awareness of and appreciation for the child as an individual. Pain management in children along with simple extraction, behavioral disorders in children in relation to medical and dental management shall also be discussed in detail in this course.</p>	
Course Code: DSPR 521	Course Name: Clinical Operative Dentistry 4
Course Description: <p>This course is a continuation of the previous restorative dentistry course and exposes the students to the management of a wide range of restorative cases. Students will use their previously acquired knowledge and skills to manage cases with specific esthetic requirements using different esthetic restorative materials. Direct restoration of endodontically treated teeth and indirect adhesive esthetic restorations will also be part of the students' training during this course. Upon completion of the course, student will have thorough knowledge and skills for proper patient management and be prepared for more challenging cases in the clinical comprehensive dentistry courses.</p>	

Course Code: DSPR 523

Course Name: Clinical Endodontics 2

Course Description:

This is the second clinical endodontics course of the curriculum. It builds on previously acquired knowledge from the first clinical course and provides further learnings related to the endodontic diseases.

The didactic part of the course focuses on presentations and problem solving of endodontic cases.

The clinical part of the course involves providing non-surgical endodontic treatment on multi-rooted teeth in carefully selected patients.

Course Code: DSDS 522

Course Name: Oral Medicine 1

Course Description:

The course deals with training the students in developing a dentist and patient relationship and generally evaluating the patient, by taking a detailed case history and conducting proper examination and requesting proper investigations to reach the differential diagnosis. Further, the students will recognize the signs, symptoms, clinical features and therapeutic or palliative management of oro – facial diseases. Students will know the normal and abnormal tissues clinically with proper intra and extra oral examination on a patient.

Course Code: DSPR 525

Course Name: Clinical Removable Prosthodontics 2

Course Description:

This clinical course is a continuation of the previous clinical removable prosthodontics where students apply the clinical aspects of managing patients requiring removable dental prostheses. Students will be subjected to patients requiring both acrylic and cast partial dentures. Students should accomplish all assigned laboratory procedures associated with the treatment of patients.

Clinical component shall include case selection, treatment planning and the actual treatment of patients that need removable partial dentures. The practical component shall cover steps that are done in the laboratory for fabrication of partial dentures. The students shall be made aware of all steps and procedures for the fabrication of a removable partial denture. The students shall complete all the cases by themselves including case selection, impression, fabrication of special trays and fabrication of the final prosthesis. All students shall maintain a clinical log book and a practical manual to record their cases and all steps during fabrication of the prosthesis. The clinical component shall carry on the work from the previous course of Clinical removable Prosthodontics -1 DSPR 515 completed in the previous semester.

Course Code: DSPR 526

Course Name: Clinical Fixed Prosthodontics 2

Course Description:

Clinical Fixed Prosthodontic course provides students with the clinical aspects of managing patients for fixed prosthodontics. Students treat a number of clinical cases of fixed crowns or fixed bridges starting from preparation procedures to laboratory.

Course Code: DSPC 526

Course Name: Research Methodology

Course Description:

The objective of the course is to teach the undergraduate students, how to carry out basic scientific research based on the principles and techniques commonly used in the process of research.

- The students will also be made to develop the ability to plan and implement a research project in general and to carry out a research project in particular (a mock research project).
- To assist the students on how to read and interpret a research paper and critically evaluate them as well as become avid consumers of published research findings.
- They will also be given group assignments and taught how to develop a research proposal.

Course Code: DSPC 528

Course Name: Geriatric Dentistry

Course Description:

The course will introduce students to matters associated with aging population starting from the biological and physiological changes. It will also highlight the serious issues that may arise to elderly including medical issues, mental status and housing and other challenges. Students will be oriented about the importance and how to care for our aging population based on evidence starting from clinical assessment, nutrition, pharmacological aspects, preventive measures as well as providing care for homebound patients. The course will go in depth in geriatric oral conditions and their clinical implications on elderly and moreover will orient the students of how to develop a treatment plan for geriatric patients while considering all the aspects of aging population.

Course Code: ARAB 1100

Course Name: Arabic Writing Skills

Course Description:

يركز المقرر على تنمية المهارات الكتابية لدى طلبة برنامج الإعداد الجامعي في جامعة دار العلوم، وتطبيق تلك المهارات في حياتهم الجامعية والعملية. بما في ذلك توظيف المهارات الخاصة بعلامات الترقيم، والسلامة النحوية، والسلامة الإملائية. كذلك يتناول المقرر تنظيم الألفاظ وفق نسق لغوي صحيح، صياغة التعبير الكتابي بأسلوب سليم، صياغة الرسائل الإدارية والاجتماعية والإلكترونية، التمكن من مراجعة المعاجم اللغوية واستخراج معاني الكلمات، إضافة إلى مهارات كتابة المقالات بصورة سليمة.

Course Code: DSDS 612

Course Name: Oral Medicine 2

Course Description:

This course deals with the dental management of medically compromised patients. Students will be trained to identify the signs and symptoms expressed by the patient to the probable disease and manage them by therapeutic or palliative treatment whichever is necessary. It also includes answering the questions of the patients, their attendants and allay their fears regarding the dental treatment protocol for medically compromised patients. Students will further learn to request proper investigative procedures from other higher institutes and properly manage the condition or refer the patient to a specialist.

Course Code: DSAS 611

Course Name: Clinical Comprehensive Dentistry 1

Course Description:

Upon completion of this course the student should be able to:

- 1) Perform a comprehensive diagnosis of oral and dental health problems accurately employing all modern diagnostic tools.
 - 2) Develop, present, and discuss comprehensive treatment plans conducive to re-establishing and maintaining optimum status of health, function, aesthetics, patient satisfaction and welfare in a logical sequence and progress for optimum quality and evidence-based care.
 - 3) Select, modify, and follow the most appropriate comprehensive treatment plan for a particular case in a multidisciplinary, patient-centered care and to refer patients to specialized dental professionals for more extensive procedures beyond the scope of the general dental practice.
- Competently carry out all prevention, intervention procedures in modern general dental practice as well as accurately prescribe adjunctive therapeutic measures; to present and to discuss completely treated cases.

Course Code: DSPC 617

Course Name: Clinical Pediatric Dentistry 2

Course Description:

The primary goals of this course include the diagnosis and prevention of disease, the preservation of the natural dentition and the restoration of health, function and esthetics of stomatognathic system especially the primary dentition. Clinical training shall include following Required Clinical Procedures

Point Allocation for Clinical Procedures:

1. Examination, Treatment Plan (TP), Charting) Prophyl/Fl., etc.
2. Preventive Resin Restoration (where ever needed)
3. Space Maintainers
4. Stainless steel crowns
5. Restorations (rehabilitation purpose)
6. Pulpotomies
7. Pulpectomies

Course Code: DSPC 613

Course Name: Community Dentistry

Course Description:

This course is designed to build awareness to the principles and activities of dental public health. It will focus on providing the students with the knowledge and skills to develop different types of community health programs following the planning cycle, as students will be taught how to determine the preventive and oral health promotion programs for each community based on the disease epidemiology and community needs. The course will introduce students to dental public health in light of Saudi Arabia. The course also aims to enable the student to understand the basic concepts of the preventive modalities of dental diseases after the prediction of possible risk factors.

The course also covers the basic epidemiologic aspects of dental caries and periodontal diseases including epidemiology, indices used to measure the condition and the multifactorial aspect of the disease.

Course Code: DSPC 619

Course Name: Preclinical Orthodontics

Course Description:

A combination of didactic and practical sessions will be undertaken on a weekly basis throughout a period of 15 weeks, in the form of 4-hour teaching experiences. The design of the course will provide the level 11 undergraduate students with the basic knowledge of craniofacial growth and development, and orthodontic diagnosis. This course should prepare the students to conduct a comprehensive orthodontic assessment using clinical examination, and orthodontic records' _analysis and interpretation, leading to the formulation of an orthodontic problem list and diagnostic summary for different dentofacial abnormalities.

Knowledge of the basics of orthodontics is essential for the dental students. Through a series of lectures and practical sessions, this course will provide the undergraduate students with the background of the growth and development of dentofacial structures, characteristics of normal occlusion, etiology and diagnosis of malocclusion and the treatment of occlusal discrepancies. In addition, the course will expose the students to the various orthodontic records, and it will prepare the students to analyze them and interpret the findings. The course also allows the students to recognize different orthodontic appliances and know their proper management. The course consists of:

--- Lecture (one hour)

--- Practical session (three hours).

The lectures will cover wide range of orthodontic topics including the basic knowledge of craniofacial growth and dental development, orthodontic assessment, orthodontic records and analysis, orthodontic malocclusion and abnormalities, and different orthodontic appliances and techniques. While the practical and active learning sessions will expose the students to case-based activities, case presentations and practical management of different orthodontic appliances.

Course Code: DSAS 615

Course Name: Treatment Planning

Course Description:

This course is considered the compendium of all scientific courses that provide the dental student with the basic and advanced knowledge in diagnosis and treatment in different dental specialties by integration of such scientific knowledge to formulate proposed diagnosis, alternative and definitive treatment plans.

It is designed to compel the student to take the responsibility for comprehensive thinking of the case and to form a systematic approach for treatment planning of actual clinical cases through the co-requisite of Comprehensive Dentistry I (DSAS 611) course.

The student represents the treated case and engage in a scientific discussion about priority and different treatment modalities.

The student learns how to prepare and present himself through a well- organized scientific presentation for different aspects of treatment planning.

Course Code: DSDS 616

Course Name: Special Needs Dentistry

Course Description:

Special Care Dentistry is one of the subjects that has been recently added to the curriculum of various dental schools. This course is concisely taught as a part of other courses like Oral Surgery or Oral Medicine. Improvements in medical and social care during the last 20 years have increased the life expectancy of many people including those with previously life-threatening disorders. However, many of these individuals remain vulnerable and require particular attention to ensure that both general and oral health care provision meet their special needs.

Evidence suggests that individuals with special needs have an increased risk of experiencing oral disease and have greater oral preventive and treatment needs as compared to the general population. This course emphasizes students to special needs group and their oral health needs. The students shall also develop the concept of designing various treatment strategies to treat the special needs group in terms of their oral health.

Course Code: DSPC 629

Course Name: Clinical Orthodontics

Course Description:

The course is given over a period of 15 weeks in the form of a 2-hour seminar. In each week, groups of students will participate in team-based/case-based tutorial sessions to discuss the reading assignment and analyze the records of 10 orthodontic cases chosen to cover the following topics:

- Indications for early orthodontic treatment
- Orthodontic diagnosis and treatment planning of sagittal, vertical, and transverse malocclusions
- Adjunctive orthodontic treatment for adults

This method of learning involves the active participation of the students in their learning through generating hypotheses to explain the problems under discussion, contributing resources and knowledge to the group, and demonstrating the ability to understand and apply the available evidence to analyze the case.

Course Code: DSPC 627

Course Name: Clinical Pediatric Dentistry 3

Course Description:

The primary goals of this course include the diagnosis and prevention of disease, the preservation of the natural dentition and the restoration of health, function and esthetics of stomatognathic system especially the primary dentition. Clinical training shall include following Required Clinical Procedures

Point Allocation for Clinical Procedures:

1. Examination, Treatment Plan (TP), Charting) Prophyl/Fl., etc.
2. Preventive Resin Restoration (where ever needed)
3. Space Maintainers
4. Stainless steel crowns
5. Restorations (rehabilitation purpose)
6. Pulpotomies
7. Pulpectomies

Course Code: DSAS 622	Course Name: Clinical Comprehensive Dentistry 2
Course Description: <ul style="list-style-type: none"> This course covers all clinical disciplines in dentistry. It is offered during the sixth year and consists of one lecture and three clinical sessions per week. Conjoint course by all dental departments where contributors from all dental disciplines participate in both in the lecture and clinical sessions. 	

Course Code: DSPC 623	Course Name: The practice of Dentistry in the Community
Course Description: <p>This course is a continuation of the community dentistry course which will provide the students with skills to determine and plan the preventive measures to be implemented in the community. It also develops their planning skills of different types of dental health educational programs, including principles of oral health education. This course engages the students with the community to understand their needs and implement preventive modalities of dental diseases after the prediction of possible risk factors.</p> <p>Students are requested to plan oral health programs that target vulnerable groups e.g., individuals with disability, elderly and school children and conduct the program.</p>	

Course Code: DSPC 624	Course Name: Dental Practice Management
Course Description: <p>This course is given in the sixth year in second semesters as two lectures per week.</p> <p>Course Main Objectives:</p> <ul style="list-style-type: none"> Provide the basic knowledge and skills of administration. Strengthen students' capability of directing dental practice. Enable the students to conceptualize different aspects of health care business. Put graduating students at a competitive position in private health care market 	

Course Code: DSAS 625	Course Name: Evidence Based Dentistry
Course Description: <p>This course provides students with the necessary scientific foundation of knowledge and skills required to practice effective "Evidence-based Dentistry." Specifically, students will gain knowledge and skills to form critical questions, locate information, judge the quality of available information, and apply the evidence to clinical decision making and ongoing evaluation in both patient care at the individual level, and oral health promotion and community advocacy at the population level. Students will learn to access relevant scientific literature and conduct searches, and tools and methodology to critique the scientific literature.</p>	

Course Code: DSAS 626

Course Name: Contemporary Dental Sciences

Course Description:

The course consists of two main components: lectures and Class activities. In this course the students are introduced regarding latest dental techniques and the equipments which are present in the market, the advantages and disadvantages seen in these advanced dental equipments used in contemporary dental sciences. This will help students to be familiar with the latest trends in dental practice to be competent in the real world situation.

Course Code: DSPR 621

Course Name: Esthetic Dentistry

Course Description:

This course is an advanced esthetic multidisciplinary didactic course where the students will get detailed knowledge on how to enhance the smile and teeth appearance of the patients and provide them with dental esthetics in an integrated approach including different dental disciplines. The course aims for guiding the students for better understanding of the available materials and techniques for esthetic treatments. Importance of integrated disciplines in management of patients with esthetic restoration is taught in detail in the course.