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KING ABDULAZIZ UNIVERSITY – FACULTY OF DENTISTRY

Bachelor of Dental Medicine and Surgery
PROGRAM CATALOGUE
September, 2024

PREPARED FOR

Faculty of Dentistry
King Abdulaziz University



BDS Dental Medicine and Surgery

Program Catalogue

1445 AH

2023-2024 G

**Faculty of Dentistry
King AbdulAziz University**

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INTRODUCTION

The Faculty of Dentistry at King Abdulaziz University (KAUFD) in Jeddah, Saudi Arabia, was established by Royal Decree in 1405 AH (1985 CE). It offers a comprehensive six-year Bachelor of Dental Medicine and Surgery program, followed by a one-year internship. The program integrates foundational sciences, clinical training, and research to develop competent, patient-centered general dentists committed to serving both individuals and the wider community.

KAUFD's core philosophy centers on upholding international standards in undergraduate and postgraduate education, clinical care, and research—while advancing oral health throughout the Kingdom of Saudi Arabia.

The curriculum is carefully structured to combine scientific knowledge with extensive hands-on clinical experience, ensuring that graduates are fully prepared for professional practice and aligned with the evolving demands of the Labor market.

As a government-funded institution, **KAUFD** receives strong support from **King Abdulaziz University** and the **Saudi government**. This backing enables ongoing enhancement, expansion, and sustainability of high-quality dental education. It also ensures the faculty continues to meet increasing student demand while upholding rigorous academic standards and producing successful, well-qualified graduates.

Dean, Faculty of Dentistry

Prof. Abdulghani Ibraheem Mira

FACULTY OF DENTISTRY MISSION, VISION, GOALS AND OBJECTIVES

VISION:

To be recognized as a pioneer in dental education, research, and patient-care in the Middle East.

MISSION:

The program mission is to achieve excellence in education, research, leadership, patient care, and contribution to the improvement of oral health across the Kingdom of Saudi Arabia and commitment to institutional sustainability.

This mission is aligned with the fourth KAUPD strategic plan.

GOALS AND OBJECTIVES:

Fulfilling this mission requires the pursuit of these mutually reinforcing academic goals:

Goal # 1: Excellence in Education

To graduate competent general dentists equipped with the knowledge, skills, and attitude needed to meet the evolving demands of the dental field and the labor market, contribute to the global advancement of the profession, and achieve national and international recognition for their expertise, professionalism, and leadership skills.

1. Evaluate the dental curriculum to assure compliance with national and international accreditation standards and encourage responsiveness to evidence-based advances in dental education. Accommodate recent advances in dental education through ongoing curricular reviews.
2. Accommodate recent advances in dental education through ongoing curricular reviews
3. Provide educational experiences for students using a comprehensive patient care model.
4. Advance the skills of faculty members in teaching, research, and leadership.
5. Provide academic and social guidance and encourage constructive and effective communication between the student and the professor.
6. Improve the academic environment and educational support system.

Goal # 2: Research and Innovation:

To graduate general dentist who have the knowledge and skills to contribute in research activities that address local and global oral health challenges

1. Provide different research opportunities for students in order to facilitate the acquisition and development of the necessary skills for scientific research and dissemination of new knowledge in the field of basic and clinical sciences that is applicable to oral and dental health.
2. Increase the number of published scientific papers and/or scientific reports by faculty members in international (ISI) journals.
3. Develop infrastructure and improve resources to support the research environment and encourage global communication and partnerships in the field of scientific and technical research.
4. Develop priorities for scientific research that are in line with the plans of advancement of the Kingdom.
5. Develop and plan programs for gifted and creative students.

Goal # 3: Patient Care and Community Engagement:

To graduate competent general dentist who can deliver high-quality, holistic, evidence-based, patient-centered dental care while actively contributing to community service including minority and underserved populations.

1. Maintain the Faculty's position as a non-profitable and comprehensive dental care provider by offering consistent, reliable, evidence-based care to all patients.
2. Ensure compliance with universal precautions and recommended infection control practices and safety measures in the dental clinic.
3. Expand the Faculty's position as a provider of dental and oral care for individuals with a range of needs including psychological/ behavioral and physical disabilities as well as patients with special or medical needs.
4. Evaluate and monitor various aspects of patient care at KAUFU.
5. Monitor patient satisfaction and implement processes of addressing patients' complaints.
6. Promote community involvement through outreach activities, fostering connections with underserved populations, raising awareness of oral health's role in overall well-being, and developing compassionate, socially responsible dental professionals.
7. Foster community partnerships to facilitate effective communication between the Faculty of Dentistry and program beneficiaries.

Goal # 4: Influential Leadership and sustainability:

To foster leadership and sustainability by maintaining state-of-the-art facilities and infrastructure that ensure excellence in education, research, and patient care.

1. Improve and maintain KAUFD's facilities to meet the best available quality and standards.
2. Develop and maintain reliable electronic infrastructures to support educational and clinical processes.
3. Foster Leadership Skills Among Students and Faculty Through Innovative Programs and Infrastructure

PROGRAM LEARNING OUTCOMES (PLOS)

Program Learning Outcomes:

Knowledge and Understanding:

K1	Demonstrate knowledge and understanding of the basic dental, biomedical, behavioral, epidemiological, and clinical knowledge needed to recognize normal and pathological conditions relevant to dentistry (KAUFD MC* #4)
K2	Demonstrate knowledge and understanding of the contemporary and recent advances of biomaterials, techniques, and practices relevant to the field of dentistry (KAUFD MC* #4).
K3	Demonstrate knowledge and understanding of a range of established and specialized research and evidence-based principles and techniques relevant to the field of dentistry (KAUFD MC* #4).

Skills:

S1	Integrate, assess and interpret the knowledge gained from the basic dental, biomaterial, biomedical, behavioral, epidemiological, and clinical knowledge, transferring this knowledge and applying it to clinical situations (KAUFD MC* #4).
S2	Obtain, record, and assess the relevant personal and clinical data affecting dental treatment and maintenance as patients' chief complaint, medical, psychosocial, and dental history as well as physical growth and fitness; perform systematic examination; request medical, dental, laboratory, radiographic tests; consult as indicated with the health professional specialists evaluating oral and general health of the patient comprehensively including neglect and abuse, risk assessment, for patients of all ages (child, adult, geriatric, and special needs patients) (KAUFD MC* #8).
S3	Critically analyze the data gathered for patients of all ages (child, adult, geriatric, and special needs patients) and apply evidence-based, decision-making, clinical reasoning and problem-solving skills, in order to develop a differential, provisional or definitive diagnosis and offer patient-centered treatment plans and alternatives based on the complexity of the patients' health condition, predict prognosis within the scope of the general dentist, and obtain patients' informed consent (KAUFD MC* #9).
S4	Communicate and collaborate effectively, verbally and in writing, with patients, their families of diverse backgrounds, as well as peers, colleagues, other health care professionals and organizations, in a manner that promotes the delivery of optimal patient care and community oral health while respecting cultural differences (KAUFD MC* #3).
S5	Educate patients about oral and general health, treatments needed, prognosis and maintenance plan; assume responsibility and provide holistic comprehensive primary care for patients of all ages (child, adult, geriatric, and special needs patients) collaboratively and inter-professionally, implement preventive measures, and refer cases beyond the scope of the general dentist to recognized dental specialists as appropriate (KAUFD MC* #10) .

S6	Employ appropriate pharmacological and non-pharmacological techniques to manage orofacial pain, discomfort, fear, anxiety, and psychological distress for patients of all ages (child, adult, geriatric, and special needs patients) within the scope of general dentist and refer as appropriate (KAUFD MC* #11) .
S7	Manage common oral mucosal diseases and orofacial disorders in patients of all ages (child, adult, geriatric, and special needs patients) up to the level of the general dentist and refer as appropriate (KAUFD MC* #12).
S8	Assess the complexity and manage periodontal diseases in patients of all ages (child, adult, geriatric, and special needs patients) up to the level of the general dentist and refer as appropriate (KAUFD MC* #13).
S9	Assess the complexity and manage caries, pulpal and peri-radicular disorders in patients of all ages (child, adult, geriatric, and special needs patients) up to the level of the general dentist and refer as appropriate (KAUFD MC* #14)
S10	Assess the complexity and manage conditions requiring minor oral surgical procedures, including extraction of teeth, removal of roots, when necessary, wound care and suturing, biopsy, and providing post-operative care for patients of all ages (child, adult, geriatric, and special needs patients) up to the level of general dentist and refer as appropriate (KAUFD MC* #15).
S11	Assess the complexity and restore defective and/or missing teeth to acceptable form, function, and aesthetics and manage space in patients of all ages (child, adult, geriatric, and special needs patients) up to the level of the general dentist and refer as appropriate (KAUFD MC* #16).
S12	Recognize, manage and appropriately refer developmental or acquired dento-alveolar, growth related or functional abnormalities of the primary, mixed and permanent dentition up to the level of general dentist (KAUFD MC* #17).
S13	Recognize, prevent, respond to, and show leadership in effectively managing medical and dental emergency situations encountered in the dental practice, up to the level of the general dentist; assume responsibility that the patient has received appropriate care; refer as appropriate; and report the incident in a timely manner (KAUFD MC* #18).
S14	Deliver and support maintenance plan for general and oral health and initiate timely recall (KAUFD MC* #19).
S15	Use contemporary information technology, numerical, critical thinking and problem-solving skills in order to acquire, use, organize, store, retrieve, and generate information appropriately (KAUFD MC* #5).
S16	Carry out a variety of research techniques and apply evidence-based principles and methods relevant to the field of dentistry and contribute in disseminating knowledge to specialists and non-specialists (KAUFD MC* #4).

Values, Autonomy, and Responsibility:

V1	Demonstrate effective understanding and appropriate application of Islamic, Institutional and International moral values and ethical principles and practices relevant to research and the provision of care to all individuals building a humanistic environment (KAUFD MC* #1)."
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V2	Demonstrating the ability to comply with universal (National & International) code of professional conduct including clinical and non-clinical aspects of dental practice (KAUFD MC #2).
V3	Promote oral health and provide community-based service in real-life settings, in response to the health needs and develop life-long appreciation for the value of community service (KAUFD- MC* #6).
V4	Demonstrate the ability to manage and maintain a safe dental practice, accurately document patient records and all medical encounters in a timely and accessible manner using the proper health record system, showing sufficient knowledge in practice management including models of oral health care delivery, planning, organizing, financial and personnel management, importance of leadership role, team-work, and legal and regulatory concepts facilitating the provision of oral health care (KAUFD MC* #7).
V5	Demonstrate the ability to self-assess, use self-directed life-long learning skills, take responsibility and commitment to the discipline by professional planning for learning and seek continuing professional development (KAUFD MC* #2)

ADMISSION REQUIREMENTS

Attach a handbook or bulletin description of admission requirements including any course or experience prerequisites.

Admissions criteria, policies and procedures are published on the university website (<http://admission.kau.edu.sa>)

KAUFD is aware of the unique nature of the dental curriculum. Candidates must possess the skills and abilities that will allow them to negotiate the curriculum and successfully complete the course of study and receive the full benefit of the education.

1.1. Admission and Direct Placement

- The student will be placed directly in one of the appropriate faculties from the list of faculties available in the student's study track and according to the wishes of students and the competition mechanism, which is based on the weighted ratio, the specific requirement/criteria set by the faculty, and the number of seats available at the faculty, as approved by the Faculty Board.
- Weighted score for health faculties is the sum of grades (high school percentage + GAT + SAAT) in certain proportions according to the following:
 - ❖ High school percentage 40%
 - ❖ General Aptitude Test (GAT) 30%
 - ❖ Standard Achievement Admission Test (SAAT) 30%

Direct Admission Programs in Colleges - Bachelor's Degree

What is the Weighted ratio?

It is the sum of grades (secondary + aptitude + achievement) in certain proportions according to the following illustration:

high school ratio	%40
General Aptitude Test (GAT)	%30
Standard Achievement Admission Test (SAAT)	%30

Weighted score for health colleges
(male and female students)

Conditions for continuing in the collage after the first year:

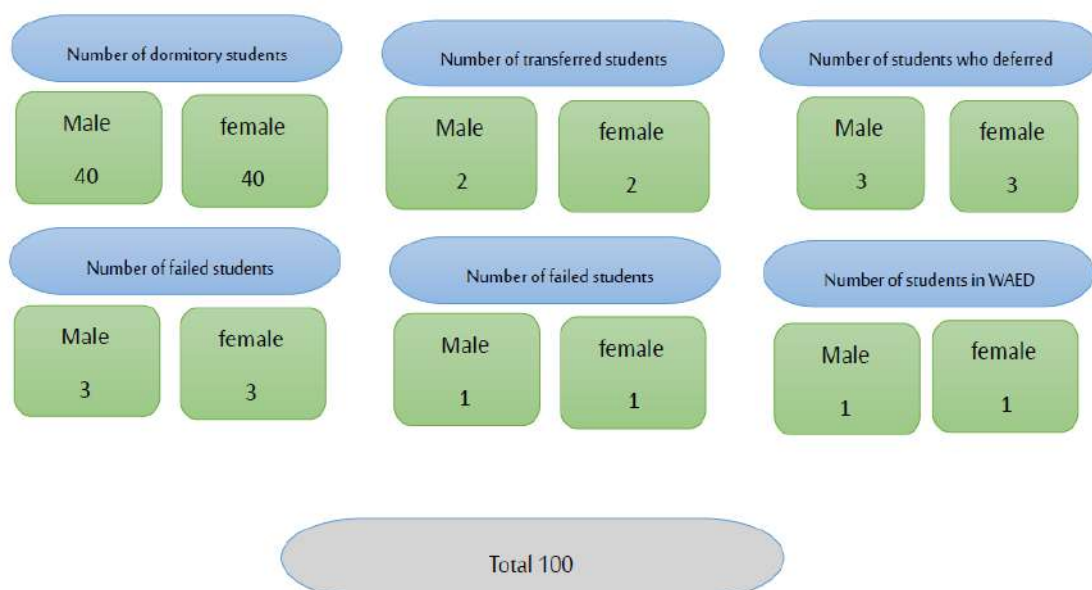
1. The GPA does not fall below 3.75 out of 5
2. Pass the MMI's
3. Achieving the minimum level in standard courses in the first year as follows

Course	Minimum average score	additional information
Biology - Chemistry - Physics	weighted 90%	
All levels of English	weighted 90%	

1. Application for the Faculty of Dentistry is conducted through the electronic services system (ODUS) and at the pre-specified times only. In addition, all applicants must submit a hardcopy of the application and related documents. If students fail to apply via the ODUS system and hand in the documents during the pre-specified time, the student will not be accepted.
2. Conditions for continuing in the Faculty of Dentistry after the first year:
 - 2.1. Pass all first-year courses healthcare track successfully.
 - 2.2. The cumulative average after passing the preparatory year for the healthcare track should be not less than 3.75 out of 5.
 - 2.3. Students must attend the Multiple Mini Interviews (MMI).
 - 2.4. Pass the Dental Admission Test (DAT) electronic test.
 - 2.5. The student should be medically fit according to Faculty of Dentistry standards.
 - 2.6. Fulfilling the admission requirements for the Faculty of Dentistry, which is achieving the minimum level of average score of 90% for the following first year courses.



3. The comparison is made according to the availability of seats and the capacity of the faculty, according to the following table:



4. For applicants who are academically qualified but cannot be enrolled due to space limitation in the faculty; these candidates will be considered by the Deanship of Admission and Registration should any vacancies occur during the first week and following the admission processes of the second academic year.
5. Students must sign the following forms after placement into the Dental Program:
 - 5.1. Premarticulation technical standards for admission of BDS candidate.
 - 5.2. Statement of understanding.
 - 5.3. Acknowledgment of receipt and delivery for new students.

1.2. Conditions for transferring to the Faculty of Dentistry in the healthcare track:

The student must fulfill all the conditions specified by the Deanship of Admission and Registration at King Abdulaziz University, in addition to the conditions set by the Faculty of Dentistry to accept transfer. Transfers are accepted from the health science faculties and the healthcare track only.

1. Fulfilling the preparatory year requirements.
2. Fulfilling the admission requirements for the Faculty of Dentistry, so that the percentage in the preparatory year courses is not less than 90%, which is an excellent grade.
3. The applicant should be enrolled in the healthcare faculties, provided that the student's cumulative average upon transfer is not less than (4.50) to (5).
4. The transfer is made according to the availability of seats and the capacity of the faculty, the total number of seats available annually (5) male seats (5) female seats as a maximum.
5. The personal interview (MMI) is among the conditions of the healthcare track, and it is 10% of the weighted average calculation.
6. Pass the Dental Admission Test (DAT) electronic test.
7. Medically fit.

1.3. Criteria for admission to WAED program (according to KAU regulations):

WAED program aims to attract outstanding and talented high school students to King Abdulaziz University by providing pathways for academic acceleration and direct placement in faculties and reducing the years of university study by omitting the foundation year for the target groups through equivalency of the study subjects studied by the student before joining the university according to the academic standards followed in the University to equalize and accept the courses that have been studied at the university or outside it (<https://admission.kau.edu.sa/Pages-WAEDprog.aspx>)

1.4 Advanced Placement Admission Criteria Placement:

Male and female students are accepted according to the criteria and conditions for admission to the advanced placement track, according to the criteria specified in the WAED Program Guide.

Special conditions for advanced placement at the Faculty of Dentistry:

Requirements	Minimum Score
Standardized Abilities Tests: take one of the following	
GAT (administered by the National Center for Assessment- KSA)	85
SAT (administered by the College Board - USA)	1200/1600

Standardized Achievement Tests: take one of the following	
Academic Achievement Test (Administered by the National Center for Assessment- KSA)	85
Two SAT Subject Tests from the following: Mathematics (level 1 or 2), biology (E or M), chemistry, physics.	1400/1600 (Sum of the two subjects scores)
English Proficiency: take one of the following	
IELTS	6/9
TOEFL IBT Test	80/120

In addition to the requirements for admission to the Faculty of Dentistry:

1. It is necessary to pass the electronic Dental Admission Test (Dental Admission Test) before placement.
2. It is necessary to pass the Multiple Mini Interviews (MMI).
3. The placement of applicants is conducted according to the availability of seats specified by the Faculty of Dentistry and the capacity available.
4. Medically fit.

1.5. Interview Process for acceptance at KAUFU (MMI)

Interviewing applicants to the Faculty of Dentistry through the Mini Multiple-Interviews (MMI) is an admission requirement to the Dental Surgery Program since 2013. The MMI process is designed to assess non-cognitive skills that are important for a health practitioner to possess and cannot be measured by standardized exams or transcripts. This is done through a series of short, structured interview stations used to assess empathy, cultural sensitivity, leadership, ethical decision-making, critical thinking, and communication skills.

The MMI are administered by a panel of faculty members and has 10% weight of the student's evaluation for acceptance into KAUFD.

1.6. Dental Admission Test (DAT)

The standardized Dental Admission Test (DAT) is now part of the admission process for newly registered students. KAUFD is one of the first dental programs to take this step. The DAT assesses and measures newly registered students' academic knowledge in the natural and quantitative sciences, critical thinking, and perceptual ability. It will also support the administration in determining newly registered students' future needs. This computer-based test is conducted using the (Question Mark) electronic program. For more information, please refer to this website: <https://www.ada.org/en/education-careers/dental-admission-test>.

REGULATORY ASPECTS OF THE STUDY PLAN

Follows Rules and Regulation for Study and Examination for university level.

First Article: Definitions

Academic Year: A full academic year is not less than thirty weeks during which the syllabus is taught, and not including registration, nor final examinations periods.

Standard of Study: Which indicates the study level, and is awarded for a whole academic year.

The Curriculum: A course of study which follows a certain standard within the approved study plan. Each course should have a number, a code, a name and a detailed description of its times which differentiate it, in respect of standard and content, from other courses. Each division should have a filing system for preservation, follow-up, evaluation and development. Some courses may have requisites, pre-requisites or others simultaneously.

Unit of Study: A weekly theoretical lecture which is not less than fifty minutes, a scientific lesson, a clinical lesson or field lesson, which is not less than a hundred minutes for half a year time.

An Academic Warning: The notification which is addressed to the student when he has only one chance left for success before rolling his entry.

Degree of Year Works: Degree awarded for work which shows the achievements of the student through an academic year including examinations, researches learning activities related to the curriculum.

Final Examinations: An examination in the curriculum held once a year the conclusion of the course.

Degree of Final Examination: It is the degree achieved by the student in each course in the final examination for the academic year.

The Final Degree: The total degrees of year works added to the final examination degree in each course.

Evaluation: The description of the percentage or the alphabetical symbol for the final degree achieved by the student in each course.

General Evaluation: Measurement of learning achievements for the student through his university study.

The Study System

Derived from the fifth, seventh and eight articles of study and examinations for university level.

Study in the faculty of dentistry follows the full academic year system.

Study consists of six study levels followed by a compulsory practical year (internship).

The student graduates when pass successfully through all study levels dictated by the study plan and in accordance with the regulations of transition from a level to another.

The curriculum is distributed over six levels. Every level has its number of units of study according to study plans.

Students progresses in study levels from the low levels up to higher levels according to approved stud plans.

Failing student will repeat the study level they fail in.

Persistence and excuse from study

Derived from the ninth, tenth and thirteenth articles of study and examinations for university level.

The student should attend all lectures practical and clinical lessons, and will not allowed to sit for the examination if his attendance is less than 90% of lectures, practical and clinical lessons appointed for each course through the academic year, and the student will fail the course. Accordingly, failing student has to repeat the course studying and examining.

The university council or their representatives has the right, exceptionally, to exempt a student and allow him to sit for the exam on condition that he/she should present an accepted excuse and his attendance should not be less than 80% of lectures, practical and clinical lessons limited to each course.

The student can be excused for an academic year without being considered a failure, on condition that he/she submits a valid excuse to the faculty council at least ten weeks before the beginning of examinations.

The student should fulfill clinical and laboratory requirements which are stated by the department. If these requirements are not fulfilled the student will be excluded from the final exam, and has to repeat the study of the course and the examination.

Delaying of study and refrainment

Derived from the fourteenth and fifteenth articles of study and examinations regulation for university level:

The student can submit an application for delaying study on condition that he presents an accepted excuse to the faculty council. Period of delaying should not exceed two intermittent years, during the whole stay in the university, after which his entry will be terminated.

If the two years are consecutive, the university council, in extreme necessity may allow the student to continue his/her study, on condition that he/she passes a qualifying exam in the subjects of the last grade he has succeeded in. If student fails, he/she may be admitted in the last academic year he has passed. This result should not be included in his general evaluation.

If the student did not become regular in study for more than four weeks without applying for a delay his entry will be terminated.

If a student refrained from study for more than four weeks without applying for a delay his entry will be terminated, and the council has the right to dismiss the student for a period less than that.

Entry Restoration

Derived from the seventeenth and eighteenth articles of the study and examinations regulation for university level.

Student whose entry has been terminated may submit an application of restoration of entry, with his/her same number and record before his refrainment pursuant to these principles:

His/her application submission should be within two years from termination of entry.

The faculty council should approve the entry restoration together authorities concerned.

If three or more years have passed since the termination of the student entry, he/she can submit a new application of admittance to the university without going back to his former record. In that case all conditions of admittance declared at that time should conform to him.

Entry restoration should not be more than once.

It is not permitted to restore the entry of a dismissed student from the University for educational or disciplinary causes; nor that dismissed from another university for the same reasons. If it is found that a student who has restore his entry, has been dismissed before for these reasons his entry should be cancelled from the date of his entry restoration.

It is not permitted to restore entry for a student in pathological cases which hinder his continuation in study or his practicing the profession of dentistry.

Graduation

Derived from the twentieth article of the study and examination regulation for university level. The student will be graduated once he/she has accomplished all graduation requirements successfully based on study plan, his/her general evaluation should not be less than satisfactory, and when completed the compulsory practical year (internship) successfully.

Dismissal from the University

Derived from the twentieth article of the study and examinations regulation for university level.

The student should be dismissed from the university in these cases:

If he/she did not succeed three academic years in the first and the second levels.

If he/she did not succeed after three years in the third and fourth levels.

If he/she did not succeed after two academic years in the fifth level and the university council has the right, on the recommendation of the faculty council, to grant him no more than one last chance.

If he/she failed in the sixth level for four times; and the university council has the right, on the recommendation of the faculty council, to grant him more than two final chances.

Evaluation and Examinations

Derived from the eleventh, twelfth, twenty-second, up to the thirtieth of the study examinations regulation for university level.

A first session final examination should be held, for all the first five levels, at the end of the academic year. The second session examination should be held before the beginning of the next academic year. A final examination every six months should be held for the sixth level, one of which should be at the end of the academic year. The student who fails in the final exam for the sixth level should repeat the examination in the subjects he has failed in only, with his/her obligation to attend all clinical and preclinical subjects, which he has already succeed in, for the first, second, third, fourth and fifth levels.

The faculty council has the right, on the recommendation of the concerned department council, to include in the final exam for any syllabus, practical and oral examinations, and state the degrees allotted for that from final exam degrees.

The student who fails the final examinations the first session is allowed to sit for the second session examination, and if he/she failed the second session examination will repeat the study in the failed subjects only, provided that there is no contraindication with the eight articles. Also obliged to attend all clinical and preclinical subjects which he has passed for the first, second, third, fourth and fifth study levels.

The student who is absent from the final exam for a course or part of it “written, oral practical or clinical” will be regarded a failure in that course, and the faculty council has the right, in extreme necessity, to accept his emergent excuse and allow him to sit for the next exam, and in that case he will be granted the grade he has achieved after the examination.

The yearly evaluation for the success of a student is calculated in each level of study levels according to arithmetic mean for evaluations which student gains in each course, with regard that his grade should not exceed satisfactory in the course he/she has failed in or was absent from without an excuse. But if student is absent for an accepted excuse the grade achieved will be counted.

The faculty council designate marks for year works (continuous assessment) not less than 30% of the final mark.

Marks for year works should be estimated by one of the following:

Oral, practical, clinical, researches, types of other class activities or all of these or some of them, together with at least one written exam.

At least two written exams.

Year works mark is not included in the second session marks for all study levels.

The evaluation of student success is estimated for each course and study level as follows: Excellent (from 85% to 100%) – very good (less than 85% to 75%) – good (less than 75% to 65%) – satisfactory (less than 65% to 60%) – failure (less than 60%).

The final general evaluation for the bachelor’s degree is calculated according to the following:

2.5% of the percentage the student has achieved in the second level.

5% of the percentage the student has achieved in the third level.

7.5% of the percentage the student has achieved in the fourth level.

25% of the percentage the student has achieved in the fifth level.

60% of the percentage the student has achieved in the sixth level.

The student is awarded the first degree of honor if his general evaluation in the bachelor’s degree is excellent, and will be awarded the second degree of honor if his general evaluation

is very good, and in both cases his grades in any level of study should not be less than very good and he should not have been a failure in any examination in this university or others.

The Compulsory Practical Year (Internship)

The students who have passed the final examination for the bachelor's degree should spend a compulsory practical year (internship) – its duration is twelve months and the faculty council decides the beginning. It includes practical periods in the different specialties of dentistry.

At the end of each period of practice the intern will be evaluated by the concerned division. If an intern did not achieve a satisfactory report, then he/she has to repeat the practice period in that division, pursuant to the recommendation of the concerned division council and its approval from the Dean.

At the successful termination of the compulsory internship year, the dentist will be awarded a certificate showing periods of practice in each specification, approved by the principal.

Procedure of Final Examination

Derived from the thirty-first up to forty-first articles of the study and examinations regulation for university level.

The faculty council has the right to form a committee which cooperate with the scientific department in the organization to organize the final examinations procedures. The committee should review the marks registration in the result sheets, and presenting them to the concerned committee within a period of not more than three days from the date examining any course.

The faculty council has the right to apply secrecy in the final examinations procedure.

Faculty members for each course should set the questions for examination and coordinate with the head of department. The department council determines the distribution of questions on the parts of the course.

Each faculty member will correct the papers for the final examination of his course. The head of department may, if needed, use the expertise of one of the specialists or more in the correction process. Also, the faculty council, when necessary, can designate an expert to correct the papers.

The responsible faculty should register the marks achieved by the students in the final examination in the result sheets prepared for that purpose; he should sign it and approve it from the head of the department.

The student should not sit for more than two courses in the same day, but the faculty council has the right to change this rule.

The student cannot be allowed to enter any examination after half an hour from the beginning of the exam; and he/she will not be allowed also to get out before half an hour from beginning.

Cheating in the examination, attempting to cheat, break instructions or oppose regulations and principles of examinations will be punished for according to student disciplinary rules regulation issued by the university council.

The faculty council, when necessary, may agree to repeat correction of an examination paper within a period not more than the beginning of the examinations of the next term.

The faculty council, in accordance with the recommendation of the concerned department council will specify the time allotted for the final written examinations; on condition that it should not be less than an hour, nor more than three hours.

Without violation to the rules included in the eleventh articles, the university council states regulations which are concerned with procedures of final examinations.

General Rules

Derived from the Fifty-first, fifty-second and fifty-third articles of study and examinations regulations for university level. This regulation cancels all previous regulations that regulate study and examinations in the faculty of dentistry.

FACULTY DEPARTMENTS AND DIVISIONS

The scientific departments at **KAUFD** were restructured from 4 to 10 departments, following approval by Royal Decree in December 2013.

Diagnostic Oral Sciences Department

- Dental Anatomy & Oral Histology Division
- Oral and Maxillofacial Pathology Division
- Oral and Maxillofacial Radiology Division
- Oral Medicine Division

Oral Biology Department

Periodontology Department

Restorative Dentistry Department

- Biomaterials Division
- Operative and Esthetic Dentistry Division

Endodontics Department

Oral & Maxillofacial Prosthodontics Department

- Removable Prosthodontics Division
- Fixed Prosthodontics Division

Oral & Maxillofacial Surgery Department

Pediatric Dentistry Department

Orthodontics Department

Dental Public Health Department

Department Name	Department Code	
	Arabic	English
Diagnostic Oral Sciences	ساس	OBCS
Oral Biology	ساس	OBCS
Periodontology	ساس	OBCS
Restorative Dentistry	هاس	CDS
Endodontics	هاس	CDS
Oral & Maxillofacial Prosthodontics	واس	OMR
Oral & Maxillofacial Surgery	واس	OMR
Pediatric Dentistry	حاس	PDS
Orthodontics	حاس	PDS
Dental Public Health	حاس	PDS

Note:

Departments restructuring took place after approval of the curriculum plan. KAUFU decided to maintain the old departments and courses codes and reassign the courses under the new departments until new plan is developed.

Key to course numbers and department codes:

1. Each department is referred to by a code of a minimum of two and maximum of 4 letters (no numbers).
2. The hundredth digit refers to the school year.
3. The tenth digit refers to specialty within the department/branch.
4. The ones digit refers to course serial within the same specialty

PROGRAM STUDY PLAN

1. Program Description

Name of Academic Degree	Bachelor of Dental Medicine and Surgery
Qualification Level	Bachelor Degree / Level 7
College	Faculty of Dentistry
Institution	King Abdulaziz University

2. Study Plan Framework

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	9	23	11.2 %
	Elective	-	-	-
College Requirements	Required	5	15	7.3 %
	Elective	-	-	-
Program Requirements	Required	46	167	81.5%
	Elective	-		
Capstone Course/Project		-		
Field Training/ Internship		-	40 contacts No credit Hs	
Residency year				
Others				
Total			205	

3. UNIVERSITY REQUIREMENTS/ FACULTY COMPUSORY COURSES

“SCIENCE TRACK”:

	COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	PRE- REQUISITES
1	Islamic Culture (1)	ISLS 101	101 سلم	2	
2	Islamic Culture (2)	ISLS 201	201 سلم	2	ISLS 101
3	Islamic Culture (3)	ISLS 301	301 سلم	2	ISLS 201
4	Islamic Culture (4)	ISLS 401	401 سلم	2	ISLS 301

5	Arabic Language (1)	ARAB 101	عرب 101	3	
6	Arabic Language (2)	ARAB 201	عرب 201	3
7	Problem Solving and Programming	CPIT 100	تم 110	3	
8	English Language (1)	ELI 101	لغة مسار صحي 110	3
9	English Language (2)	ELI 102	لغة مسار صحي 120	3
10	General Biology for Health Track	BIO 110	أ ح 112	3
11	General Chemistry for Health Track	CHEM 110	ك 112	3	ELIH 110
12	Introduction to Biostatistics for Health Track	STAT 110	ص 112	3	
13	Calculus for Health Track	MATH 110	ر 112	3	
14	General Physics for Health Track	PHYS 110	ف 112	3	
TOTAL				23+ 15 = 38	

4. Program Courses:

	COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
					Th	Pr	Tr		
1	Gross Anatomy	ANTD 201	ت ش س 201	5	2	4	0	6	BIO 112
2	Histology & Embryology	HIED 201	أ ج س 201	3	2	2	0	4	BIO 112
3	Physiology	PHYD 201	و ا س 201	4	2	3	0	5	CHEM 112 BIO 112 PHYS 112
4	Biochemistry	BCHD 201	ك ح س 201	4	2	3	0	5	CHEM 112
5	Dental Anatomy & Occlusion	OBCS 223	ساس 223	2	1	2	0	3	ANTD 201
6	Biomaterials I	CDS 233	حاس 233	2	2	0	0	2	PHYS 112 CHEM 112
7	Labor Market Skills in Dentistry	OBIO 212	ساس 212	3	3	0	0	3	

8	General & Systemic Pathology	PATD 301	ام س 301	4	2	3	0	5	PHYD 201 ANTD 201
9	Microbiology, Immunology & Parasitology	MICD 301	أ د س 301	2	1	2	0	3	BIO 112
10	Dental Pharmacology	PHAD 301	ع أ س 301	2	2	0	0	2	CHEM 112 BIO 112 PHYS 112
11	Oral Histology	OBCS 322	ساس 322	2	1	2	0	3	HIED 201
12	Oral Pathology	OBCS 334	ساس 334	3	2	2	0	4	PATD 301
13	Oral Radiology	OBCS 377	ساس 377	2	1	2	0	3	PHYS 112
14	Biomaterials II	CDS 333	حاس 333	2	1	2	0	3	CDS 233
15	Preclinical-Operative and Esthetic Dentistry	CDS 311	حاس 311	4	2	4	0	6	CDS 233 CDS 333
16	Pain Control & Anesthesia	OMR 312	هايس 312	3	1	0	2	3	ANTD 201
17	Professional Ethics & Law	PDS 333	وايس 333	2	2	0	0	2	OBIO 212
18	General Medicine	MEDD 401	ط ب س 401	2	1	2	0	3	ANTD 201 PHYD 201 BIO 112 OBCS 334
19	Oral Diagnosis & Treatment Planning	OBCS 468	ساس 468	3	1	0	2	3	PATD 301
20	Diagnostic Oral Radiology	OBCS 477	ساس 477	3	1	2	0	3	OBCS 377
21	Oral Biology & Nutrition	OBCS 411	ساس 411	4	4	0	0	4	BIO 102
22	Periodontics	OBCS 445	ساس 445	4	1	0	3	4	HIED 201
23	Operative and Esthetic Dentistry	CDS 411	حاس 411	4	1	0	3	4	CDS 311

24	Preclinical Endodontics	CDS 422	حاس 422	4	1	0	3	4	MICD 301
25	Preclinical Removable Prosthodontics	OMR 424	هاس 424	2	1	3	0	4	OBCS 223
26	Removable Prosthodontics	OMR 423	هاس 423	4	1	0	3	4	OBCS 223
27	Fixed Prosthodontics & Occlusion	OMR 434	هاس 434	4	2	4	0	6	CDS 233
28	General Surgery, ENT & G. Anesthesia	SURD 401	ج ح س 401	2	1	2	0	3	ANTD 201
29	Biostatistics & Methods of Scientific Research	PDS 434	واس 434	2	2	0	0	2	CPIT 100
30	Practice Management	PDS 435	واس 435	2	2	0	0	2	OBIO 212
31	Pharmacotherapeutics	PHAD 501	ع أ س 501	2	2	0	0	2	PHAD 301
32	Oral Medicine	OBCS 556	ساس 556	3	1	0	2	3	MEDD 401
33	Periodontics	OBCS 545	ساس 545	4	1	0	3	4	OBCS 445
34	Operative and Esthetic Dentistry	CDS 511	حاس 511	4	1	0	3	4	CDS 411
35	Endodontics	CDS 522	حاس 522	4	1	0	3	4	CDS 422
36	Implantology	OMR 521	هاس 521	2	2	0	0	2	ANTD 201
37	Removable Prosthodontics	OMR 523	هاس 523	4	1	0	3	4	OMR 423
38	Fixed Prosthodontics & Occlusion	OMR 534	هاس 534	5	1	2	3	6	OMR 434

39	Oral Surgery	OMR 511	هاس 511	4	1	0	3	4	ANTD 201
40	Pediatric Dentistry	PDS 511	واس 511	4	1	0	3	4	CDS 333
41	Orthodontics	PDS 522	واس 522	2	1	2	0	3	OBCS 477
42	Comprehensive Care Clinics (Adult & Geriatric)	CCC 600	ع ع ش 600	24	2	0	22	24	CDS 511 CDS 522 OMR 534 OMR 523 OBCS 545 OBCS 556
43	Oral Surgery	OMR 611	هاس 611	4	1	0	3	4	OMR 511
44	Pediatric Dentistry Comprehensive Care Clinics	PDS 615	واس 615	4	1	0	3	4	PDS 511
45	Orthodontics Comprehensive Care Clinics	PDS 626	واس 626	4	1	0	3	4	PDS 522
46	Community Dental Practice	PDS 633	واس 633	4	1	3	0	4	PDS 434
Total				167					

SECOND YEAR COURSES

COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
				Th	Pr	Tr		
Gross Anatomy	ANTD 201	تششس 201	5	2	4	0	6	BIO 110
Histology & Embryology	HIED 201	أجس 201	3	2	2	0	4	BIO 110
Physiology	PHYD 201	واس 201	4	2	3	0	5	CHEM 110 BIO 110 PHYS 110
Biochemistry	BCHD 201	كحس 201	4	2	3	0	5	CHEM 110
Dental Anatomy & Occlusion	OBCS 223	ساس 223	2	1	2	0	3	ANTD 201
Biomaterials I	CDS 233	حاس 233	2	2	0	0	2	PHYS 110 CHEM 110

THIRD YEAR COURSES

COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
				Th	Pr	Tr		
General & Systemic Pathology	PATD 301	ام س 301	4	2	3	0	5	PHYD 201 ANTD 201
Microbiology, Immunology & Parasitology	MICD 301	أ د س 301	2	1	2	0	3	BIO 110
Dental Pharmacology	PHAD 301	ع أ س 301	2	2	0	0	2	CHEM 110 BIO 110 PHYS 110
Oral Histology	OBCS 322	ساس 322	2	1	2	0	3	HIED 201
Oral Pathology	OBCS 334	ساس 334	3	2	2	0	4	PATD 301
Oral Radiology	OBCS 377	ساس 377	2	1	2	0	3	PHYS 110
Preclinical-Operative and Esthetic Dentistry	CDS 311	حاس 311	4	2	4	0	6	CDS 233 CDS 333
Biomaterials II	CDS 333	حاس 333	2	1	2	0	3	CDS 233
Pain Control & Anesthesia	OMR 312	هاس 312	3	1	0	2	3	ANTD 201

FOURTH YEAR COURSES

COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
				Th	Pr	Tr		
General Medicine	MEDD 401	طب س 401	2	1	2	0	3	ANTD 201 PHYD 201 BIO 110 OBCS 334
Oral Diagnosis & Treatment Planning	OBCS 468	ساس 468	3	1	0	2	3	PATD 301
Diagnostic Oral Radiology	OBCS 477	ساس 477	3	1	2	0	3	OBCS 377
Oral Biology & Nutrition	OBCS 411	ساس 411	4	4	0	0	4	BIO 101
Periodontics	OBCS 445	ساس 445	4	1	0	3	4	HIED 201
Operative and Esthetic Dentistry	CDS 411	حاس 411	4	1	0	3	4	CDS 311
Preclinical Endodontics	CDS 422	حاس 422	4	1	0	3	4	MICD 301
Preclinical Removable Prosthodontics	OMR 424	هاس 424	2	1	3	0	4	OBCS 223
Removable Prosthodontics	OMR 423	هاس 423	4	1	0	3	4	OBCS 223
Fixed Prosthodontics & Occlusion	OMR 434	هاس 434	4	2	4	0	6	CDS 233
General Surgery, ENT & G. Anesthesia	SURD 401	ج ح س 401	2	1	2	0	3	ANTD 201
Professional Ethics & Law	PDS 433	واس 433	2	2	0	0	2	COMM 101
Biostatistics & Methods of Scientific Research	PDS 434	واس 434	2	2	0	0	2	CPIT 100

Practice Management	PDS 435	وائس 435	2	2	0	0	2	COMM 101
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FIFTH YEAR COURSES

COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
				Th	Pr	Tr		
Pharmacotherapeutics	PHAD 501	عأس 501	2	2	0	0	2	PHAD 301
Oral Medicine	OBCS 556	ساس 556	3	1	0	2	3	MEDD 401
Periodontics	OBCS 545	ساس 545	4	1	0	3	4	OBCS 445
Operative and Esthetic Dentistry	CDS 511	حاس 511	4	1	0	3	4	CDS 411
Endodontics	CDS 522	حاس 522	4	1	0	3	4	CDS 422
Implantology	OMR 521	حاس 521	2	2	0	0	2	ANTD 201
Removable Prosthodontics	OMR 523	حاس 523	4	1	0	3	4	OMR 423
Fixed Prosthodontics & Occlusion	OMR 534	حاس 534	5	1	2	3	6	OMR 434
Oral Surgery	OMR 511	حاس 511	4	1	0	3	4	ANTD 201
Pediatric Dentistry	PDS 511	وائس 511	4	1	0	3	4	CDS 333
Orthodontics	PDS 522	وائس 522	2	1	2	0	3	OBCS 477

SIXTH YEAR COURSES

COURSE TITLE	COURSE CODE	ARABIC CODE	CREDIT HOURS	CONTACT HOURS / WEEK			CH	PRE-REQUISITES
				Th	Pr	Tr		
Comprehensive Care Clinics (Adult & Geriatric)	CCC 600	ع ع ش 600	24	2	0	22	24	CDS 511 CDS 522 OMR 534 OMR 523 OBCS 545 OBCS 556
Oral Surgery	OMR 611	هاس 611	4	1	0	3	4	OMR 511
Pediatric Dentistry Comprehensive Care Clinics	PDS 615	واس 615	4	1	0	3	4	PDS 511
Orthodontics Comprehensive Care Clinics	PDS 626	واس 626	4	1	0	3	4	PDS 522
Community Dental Practice	PDS 633	واس 633	4	1	3	0	4	PDS 434

FACULTY OF DENTISTRY DEPARTMENTAL COURSE OFFERINGS

1. Department Courses:

➤ DIAGNOSTIC ORAL SCIENCES DEPARTMENT (OBCS)

The department includes the following divisions

- ❖ Dental Anatomy & Oral Histology Division
- ❖ Oral and Maxillofacial Pathology Division
- ❖ Oral and Maxillofacial Radiology Division
- ❖ Oral Medicine Division

1- DEPARTMENT COMPULSORY COURSES BY DIVISIONS

Division	Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
					Th.	Pr.	Tr.		
Dental Anatomy & Oral Histology	Dental Anatomy & Occlusion	OBCS 223	223 ساس	2	1	2	0	3	ANTD 201
Dental Anatomy & Oral Histology	Oral Histology	OBCS 322	322 ساس	2	1	2	0	3	HIED 201
Oral & Maxillofacial Pathology	Oral Pathology	OBCS 334	334 ساس	3	2	2	0	4	PATD 301
Oral & Maxillofacial Radiology	Oral Radiology	OBCS 377	377 ساس	2	1	2	0	3	PHYS 112
Oral & Maxillofacial Radiology	Diagnostic Oral Radiology	OBCS 477	477 ساس	3	1	2	0	3	OBCS 377
Oral Medicine	Oral Diagnosis & Treatment Planning	OBCS 468	468 ساس	3	1	0	2	3	PATD 301
Oral Medicine	Oral Medicine	OBCS 556	556 ساس	3	1	0	2	3	MEDD 401

2-DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
2nd	Dental Anatomy & Occlusion	OBCS	223
3rd	Oral Histology	OBCS	322
	Oral Pathology	OBCS	334
	Oral Radiology	OBCS	377
4th	Diagnostic Oral Radiology	OBCS	477
	Oral Diagnosis & Treatment Planning	OBCS	468
5th	Oral Medicine	OBCS	556

DENTAL ANATOMY & ORAL HISTOLOGY DIVISION

Course name	Dental Anatomy & Occlusion
Course code	OBCS 223
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Dental Anatomy & Oral Histology
Course type	Required
Academic year (level)	Second Year
Credit hours	2

Contact hours / week	3 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	ANTD 201
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Identify terminology of primary and permanent dentition and different tooth numbering system and tooth identification
1.2	Define the morphological details of human dentitions relevant to the practice of dentistry.
1.3	Identify the basic concepts of occlusion
2	Skills
2.1	Differentiate between the different types of human teeth.
2.2	Correlate the dental morphological details to their effect in protecting the periodontium and orofacial landmarks to their clinical significance
2.3	Distinguish the different stages of tooth formation and the chronology of the primary and permanent dentition
2.4	Develop the skill of manual carving of the natural dimensions of the teeth in order to provide the basic practice for clinical dentistry and also for handling the dental instruments.
2.5	Use internet web sites relevant to course content in studying and extracting the material and figures needed to complete their assignments.
2.6	Communicate effectively with peers and supervisors and present information clearly to the public.
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect and comply with professional code of conducts.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
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The Patient	The Head & Neck / The Dental Hard Tissue	Dental nomenclature	2	Lecture with interactive discussion
		Dental nomenclatures	3	Practical session with feedback
		Permanent maxillary central incisor	1	Lecture with interactive discussion
		Permanent maxillary lateral incisor	1	Lecture with interactive discussion
		Drawing of the permanent maxillary central incisor + Wax carving of the permanent maxillary central incisor	3	Practical session with feedback
		Permanent mandibular central incisor	1	Lecture with interactive discussion
		Wax carving of the permanent maxillary central incisor	3	Practical session with feedback
		Permanent mandibular lateral incisor	1	Lecture with interactive discussion
		Wax carving of the permanent maxillary central incisor	3	Laboratory Hands-on Session
		Permanent maxillary canine	1	Lecture with interactive discussion
		Permanent mandibular canine	1	Lecture with interactive discussion
		Drawing of the permanent mandibular central incisor + Wax carving of the permanent mandibular central incisor	3	Practical session with feedback
		Permanent maxillary 1st premolar	1	Lecture with interactive discussion
		Wax carving of the permanent mandibular central incisor	3	Practical session with feedback

		Permanent maxillary 2nd premolar	1	Lecture with interactive discussion
		Wax carving of the permanent mandibular central incisor	3	Practical session with feedback
		Permanent mandibular 1st premolar	1	Lecture with interactive discussion
		Permanent mandibular 2nd premolar	1	Lecture with interactive discussion
		Drawing of the permanent maxillary canine + Wax carving of the permanent maxillary canine	3	Practical session with feedback
		Relationship between form and function of anterior teeth	2	Lecture with interactive discussion
		Wax carving of the permanent maxillary canine (Review)	3	Practical session with feedback
		Wax carving of the permanent maxillary canine (Review)	3	Practical session with feedback
		Orofacial landmarks and their clinical significance	2	Lecture with interactive discussion
		Drawing of the maxillary 1st premolar + Waxing up of the maxillary 1st premolar	3	Practical session with feedback
		Waxing up of the maxillary 1st premolar (Review)	3	Practical session with feedback
		Permanent maxillary 1st molar	1	Lecture with interactive discussion
		Waxing up of the maxillary 1st premolar (Review)	3	Practical session with feedback

		Permanent maxillary 2nd molar	1	Lecture with interactive discussion
		Permanent maxillary 3rd molar	1	Lecture with interactive discussion
		Drawing of the permanent maxillary 1st molar + Waxing up of the permanent maxillary 1st molar	3	Practical session with feedback
		Permanent mandibular 1st molar	1	Lecture with interactive discussion
		Waxing up of the permanent maxillary 1st molar (Review)	3	Practical session with feedback
		Permanent mandibular 2nd molar	1	Lecture with interactive discussion
		Waxing up of the permanent maxillary 1st molar (Review)	3	Practical session with feedback
		Permanent mandibular 3rd molar	1	Lecture with interactive discussion
		Deciduous dentition	2	Lecture with interactive discussion
		Drawing of the permanent mandibular 2nd molar + Waxing up of the permanent mandibular 2nd molar	3	Practical session with feedback
		Waxing up of the permanent mandibular 2nd molar (Review)	3	Practical session with feedback

		Dental chronology	2	Lecture with interactive discussion
		Teeth identification + Waxing up of the permanent mandibular 2nd molar (Review)	3	Practical session with feedback
		Dental occlusion	2	Lecture with interactive discussion
		Student prepared presentation (SPP)	2	Self-directed learning
	Revision and feedback session	Divided between S1, S2	3	Interactive discussion
Total				90

Type	Assessment Activities*			Assessment timing (in Week no.)	Percentage of total assessment score
Continuous Assessments	Quiz 1	Knowledge/Cognitive Skills	Paper-Based: MCQS	1 st sem. W5	4%
	Quiz 2	Knowledge/Cognitive Skills	Paper-Based: MCQS	1 st sem. W14	4%
	Quiz 3	Knowledge/Cognitive Skills	Paper-Based: MCQS	W23	4%
	Technical Skills Requirement	Drawing Skills		1 st sem. W15	2 %
	In-Class Activity	Problem Solving/ Cognitive Skills (clinical correlation Chronology)	Chronology Problem Solving - estimation of age using	2 nd sem. W 23	2 %

			panoramic x-ray		
	Minimal Procedural Experience (MPE)			1 st sem.	5%
	Requirement #1			&	
	Requirement #2			2 nd sem.	
	Teeth identification			2 nd sem. W 20	2%
	Presentation	Oral Presentation Skills	SPP: Group Work	2 nd sem. 23 rd W	3%
Final Assessments	Student Logbook	Keeping records of own experience	Throughout the year		Affect marks assigned to requirements
	Midyear Exam	Knowledge/Cognitive Skills	Short essays + MCQs	1 st sem. W14	17%
	Final Year Exam	Knowledge/Cognitive Skills	Short essays + MCQs	2 nd sem. W24	24%
	Objective Structured Practical Examination (OSPE)			2 nd sem. W24	6%
Practical Examination	Carving Skills		Wax carving of maxillary central incisor	1 st sem. W6	4 %
	Carving Skills		Wax carving of mandibular central incisor	1 st sem. W7	4%
	Carving Skills		Wax carving of maxillary canine	1 st sem. W8	4 %
	Carving Skills		Waxing up of maxillary first premolar	2 nd sem. W18	5 %

	Carving Skills	Waxing up of mandibular second molar	2 nd sem. W20	5%
	Carving Skills	Waxing up of maxillary first molar	2 nd sem. W23	5%
Total				100%

Course name	Oral Histology
Course code	OBCS 322
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Dental Anatomy & Oral Histology
Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	3 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	HIED 201
Course format	Preclinical course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Identify the microscopic and submicroscopic structures of the hard and soft dental tissues and supporting structures.
1.2	Describe the normal, microscopic and submicroscopic structure of human oral and para-oral soft and hard tissues
1.3	Recognize the embryology and development of the craniofacial region relating the basic principles of facial development
1.4	Describe the stages of tooth eruption, shedding and tooth movement during eruption.

2	Skills
2.1	Correlate the structures of oral and para-oral tissues to their function and their clinical features
2.2	Correlate the mineralization processes occurring during the formation of dental tissues to dental growth-related abnormalities.
2.3	Use the internet web sites relevant to course content to extract the material and figures needed to complete their group projects
2.4	Demonstrate effective communication with supervisors and peers in a scientific context using suitable terms in verbal and written means.
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect and comply with professional code of conducts

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Patient	The Head & Neck / The Dental Hard Tissue	Dental nomenclature 1	1	Lecture / Small group teaching
		Dental nomenclature 2	1	Lecture / Small group teaching
		Maxillary central incisor	1	Lecture
		Maxillary lateral incisor		Lecture
		Mandibular central incisor		Lecture
		Mandibular lateral incisor	1	Lecture
		Maxillary canine	1	Lecture
		Mandibular canine	1	Lecture
		Wax carving of maxillary central incisor (Lab)	3	Laboratory Hands-on Session

		Wax carving of mandibular central incisor (Lab)	3	Laboratory Hands-on Session
		Wax Restoration of missing portions of anterior teeth in casts mounted in articulators (Lab)	3	Laboratory Hands-on Session
		Wax Restoration of missing portions of artificial plastic anterior teeth (Lab)	3	Laboratory Hands-on Session
		Relationship between form and function of anterior teeth Part I	1	Lecture
		Maxillary 1st and 2nd premolars	1	Lecture
		Mandibular 1st and 2nd premolars	1	Lecture
		Relationship between form and function of anterior teeth Part II	1	Lecture
		Anatomical landmarks of face and oral cavity their clinical significance	2	Lecture
		Student prepared presentation (SPP) Part I	1	Tutorial
		Development and eruption of primary and permanent teeth	3	Lecture
		Waxing up of the maxillary first premolar (Lab)	3	Laboratory Hands-on Session
		Maxillary first ,second & third molar	3	Lecture
		Mandibular first second & third molar	3	Lecture
		Waxing up of the mandibular 2nd molar (Lab)	3	Laboratory Hands-on Session
		Wax restoration of missing portions of posterior teeth (Lab)	3	Laboratory Hands-on Session

		Wax Restoration of missing portions of artificial plastic posterior teeth (Lab)	3	Laboratory Hands-on Session
The Patient	The Head & Neck / Occlusion & Temporo-mandibular Joint	Occlusion of primary and permanent teeth	3	Lecture
		Student prepared presentation (SPP) Part II	1	Tutorial

	Assessment Title	Assessment Method		Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Knowledge/Cognitive Skills	Written assessment : MCQs	1 st sem. W5	2.5%
	Quiz 2	Knowledge/Cognitive Skills	Written assessment: MCQs	1 st sem. W11	2.5%
	Quiz 3	Knowledge/Cognitive Skills	Written assessment MCQs	2 nd sem. W10	2.5%
	Requirement	Histological Sections Identification Skill	Lab Activity 1	TBD	5%
			Lab Activity 2	TBD	5%
	Assignments	Student-Directed Learning (SDL) – Clinical Relevance	Take-Home assignment Research Group Projects	TBD	5%
	Presentation	Oral Presentation	Group Student Prepared Presentation "SPP"	TBD	2.5%
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Written assessment MCQS + Short Essay	1 st sem. W15	25%

	Final Year Exam	Knowledge/Cognitive Skills	Written assessment MCQS + short essay	2 nd sem. W16	35%
	Objective Structured Practical Examination (OSPE)	Histological Sections Identification Skill	Midyear core OSPE Slide presentation	1 st sem. W15	7.5%
		Histological Sections Identification Skill	Final Year core OSPE Slide presentation	2 nd sem. W16	7.5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

ORAL & MAXILLOFACIAL PATHOLOGY DIVISION

Course name	Oral Pathology
Course code	OBCS 334
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Oral & Maxillofacial Pathology
Course type	Required
Academic year (level)	Third Year
Credit hours	3
Contact hours / week	4 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	PATD 301
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	

1	Knowledge and understanding
1.1	Recognize characteristic clinico-pathological features of soft and hard tissue lesions affecting the oral and surrounding structures
1.2	Describe the histopathological changes of these conditions which may result in the clinical features
2	Skills
2.1	Correlate the histopathological and clinical aspects of these lesions to establish a differential or definitive diagnosis
2.2	Conduct brief review “bibliography” to assess relevant and updated information, weighing it against existing knowledge and arriving at well-reasoned conclusions
2.3	Recommend the suitable investigations and management for these conditions
2.4	Work in groups and interact effectively with peers while maintaining group cooperation
2.5	Display presentation and communications skills delivering needed information publicly, to colleagues and to patients
3	Values
3.1	Demonstrate effective understanding and appropriate application of Islamic moral values and ethical principles complying with professional code of conduct

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
		Introduction to Oral Pathology and Oral Pathology Lab Orientation	1+4	Lecture Lab
The Patient	The Head and Neck / Craniofacial Development	Developmental Defects of the Head and Neck	2	Lecture
		Developmental Defects of the Head and Neck (CPC)	1	Interactive session
	The Head and Neck / Dental	Teeth Anomalies	2	Lecture
		Teeth Anomalies (CBL) with 377	2	Interactive session

	Hard Tissue (in Disease)	Histopathology of Dental Caries	2	Lecture
		Histopathology of Dental Caries (CPC)	1	Interactive session
		Dental Caries (CBL) (Cariology Module CDS 311)	2	Interactive session
	The Head and Neck / Dental Hard Tissue "in Disease"	Tooth Surface Loss	2	Lecture
		Tooth surface Loss (CPC)	1	Interactive session
		Immune Mediated Diseases and Their Evaluation	2	Lecture
		Immune Mediated Diseases and Their Evaluation (CPC)	2	Interactive session
		Allergic Reactions in the Dental Clinic	2	Lecture
		Bone Diseases	2	Lecture
	The Head and Neck / Oral Mucosa and Underlying Osseous Structure "in Disease"	Bone Diseases (CBL) Integrated with OBCS 377	2	Interactive session
	The Head and Neck / Pulp and Peri-Radicular Tissues (in Disease)	Pulp and Peri-radicular Diseases (Taught by Endo staff)	2	Lecture
		Histopathology of Pulpal and Peri-radicular Diseases	2	Lecture
	The Head and Neck / Oral Mucosa and Underlying Osseous Structure "in Disease"	Infections of the Jaw as Consequence of Peri-Radicular Disease	1	Lecture
	The Head and Neck / Pulp and Peri-Radicular Tissues (in Disease)	Pulp and Peri-radicular Diseases (CBL) (OBCS 377 & Endo)	2	Interactive session
	The Body System / IBLs "in Disease" Immunology	Bacterial Oral Infections	2	Lecture
		Viral Oral Infections	2	Lecture
		Fungal Oral Infections	2	Lecture

		Bacterial and Viral Infections (CPC)	4	Interactive session
	The Body System / IBS "Oral Manifestation/Relevance"	Fungal Infections (CPC)	2	Interactive session
Humanism		Tutorial	2+2	Interactive session
The Dentist	Basic Dental Skills - Scientific Inquiry and Research (Level 2)	Updated Topic Assignment	2	Lecture
		Dental Relevance lecture + Poster presentations (PATD 301)	1+4	Lecture + Interactive session
The Patient	The Head and Neck / Gingiva and Peridontium "in Disease"	Periodontal Diseases - 1	1	Lecture
		Periodontal Diseases - 2	1	Lecture
		Periodontal Diseases -3	1	Lecture
		Periodontal Diseases - 4	1	Lecture
		Periodontal Diseases (CBL)	2	Interactive session
	The Body System / Neoplasia	Non-Odontogenic Cysts	2	Lecture
		Non-Odontogenic Cysts (CBL)	1	Interactive session
		Odontogenic Cysts	2	Lecture
		Odontogenic Cysts (CBL)	1	Interactive session
		Odontogenic Tumors	3	Lecture
		Odontogenic Tumors (CBL)with OBCS 377	2	Interactive session
		Benign Epithelial Lesions	2	Lecture
		Benign Epithelial Lesions (CPC)	1	Interactive session
		Premalignant Epithelial Lesions	2	Lecture
		Malignant Epithelial Lesions	2	Lecture
		Malignant & Premalignant Epithelial Lesions (CPC)	2	Interactive session
		Benign Mesenchymal Lesions	2	Lecture

		Malignant Mesenchymal Lesions	2	Lecture
		Benign and Malignant Mesenchymal Lesions - 2 (CBL) with OBCS 377	2	Interactive session
	The Head and Neck / Salivary Glands "in Disease"	Salivary Gland Diseases	2	Lecture
		Salivary Gland Tumors	2	Lecture
		Salivary Gland Diseases (CBL)	2	Interactive session
The Dentist	Basic Dental Skills - Scientific Inquiry and Research (Level 2)	Updated Topic Student Presentations	6	Interactive session
	Slide Revision	Subgroups	8	Oral Pathology Lab
	Revision and Feedback	Divided between S1, S2	4	
	SDL		4	
Total			120	

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Written assessment: MCQs	1st sem. W8	3%
	Quiz 2	Integrated Assessment with CDS 311 OBCS 377	Written assessment: MCQs/short essay addressing "Cariology Module"	1st sem. W11	Mark assigned to CDS 311
	Quiz 3	Integrated Assessment with OBCS 377	Written assessment: MCQs/CPC short answers addressing "Pulpal and Periapical Module"	1st sem. W12	2%
	Quiz 4	Integrated Assessment	Written assessment:	1st sem. W13	2%

		with MICD 301	MCQs/CPC short answers addressing "Infections"		
	Quiz 5	Integrated Assessment with OBCS 334 OBCS 377	Written assessment: MCQs/CPC short answers addressing "Periodontology"	2nd sem. W5	2%
	Quiz 6	Integrated Assessment with OBCS 377	Written assessment: MCQs/CPC short answers addressing "Cysts and Tumors"	2nd sem. W9	2%
	Quiz 7	Integrated Assessment with OBCS 377	Written assessment: MCQs/CPC short answers addressing "Epithelial and Mesenchymal lesions"	2nd sem. W12	2%
	Quiz 8	Integrated Assessment with OBCS 377	Written assessment: MCQs/CPC short answers addressing "Salivary Glands"	2nd sem. W13	3%
	Assignment	Student-Directed Learning (SDL) Assignment	5 written assignments on chosen topics	TBD	7 %
	Scientific Research Activity	Topic Review	Research Group Projects: Conduct brief review "bibliography" about the topic, including updates, and conclusion with students' opinion.	TBD	4%

			<p>Appropriately reference the review.</p> <ol style="list-style-type: none"> 1. Look up references in the online database. 2. Choose appropriate references to suit the topic. 3. Summarize the literature to form a miniature essay and presentation. 4. Create a proper bibliography with Harvard referencing. 5. Cooperate with their colleagues working in groups to complete the project. 		
	Presentation	Oral Presentation Skills	Group Presentation of Topic Review	TBD	2%
	In-Class Activity	<p>Engagement in Case-Based Learning (CBL) Activity</p> <ol style="list-style-type: none"> 1. Train students on Clinical and 	<p>Students expected to engage in CBLs activities as teams.</p> <p>For example:</p> <p>Pictionary: Students are expected to draw a characteristic feature and</p>	Based on WTT	5%

		histological correlations. 2. Enhance students' ability to reach a definitive diagnosis. 3. Promote student interaction	the remaining students have to guess the lesion. Role-play: instructors play the patient and the students have to take a history and gather information needed to provide a diagnosis. Case Discussions: students discuss scenarios in groups then "Socratic survey tool" used to collect their answers.		
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	Written assessment: MCQS and Structured Oral Exam	1st sem. W16	20%
	Final Year Exam	Knowledge/ Cognitive Skills	Written assessment: MCQS	2nd sem. W16	30%
	Objective Structured Practical Examination (OSPE)	Midyear OSPE:	Core OSPE Slide presentation	1st sem. W16	7%
		Clinicopathological Correlation			
		Final Year OSPE:		2nd sem. W16	7%
	Clinicopathological Correlation				
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%

	Attendance	Attendance and participation is graded	2%
	Incentives	Announcement of winning teams in CBL activities	0%
Total			100%

ORAL & MAXILLOFACIAL RADIOLOGY DIVISION

Course name	Oral Radiology
Course code	OBCS 377
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Oral & Maxillofacial Radiology
Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	3 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	PHYS 112
Course format	Preclinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Identify the characteristics of ionizing radiation, with description of the basic principles of radiation biology, safety and protection, as well as the different factors affecting the final image.
1.2	Describe the principles of different intraoral and extraoral radiographic techniques as well as panoramic imaging and their indications, including and technical errors for both healthy and special needs patients.
1.3	Identify other forms of medical imaging that are of relevance to dentistry. (MRI, CT, CBCT)
1.4	Identify the normal radiographic anatomical structures, dental anomalies, and abnormal finding as carious, periodontal and osseous lesions
2	Skills

2.1	Interpret the radiographic features of abnormalities as caries, periodontal and osseous lesions and their behavior with correlation to history and clinical examination providing a differential diagnosis
2.2	Prescribe radiographs for simulated clinical cases according to selection criteria.
2.3	Obtain diagnostically acceptable digital intraoral radiographs with image quality assessment.
2.4	Develop a comprehensive radiology report based on panoramic and intraoral radiographic findings.
3	Values
3.1	Demonstrate altruism, honesty, integrity, and respect and comply with professional code of conduct.
3.2	Perform infection control procedures.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Preclinical OMFR	Introduction to Oral Radiology	2	Interactive session
		Radiation Physics		
		Factors Affecting the Image Characteristics	1	Lecture
		Image Receptors and Digital Imaging	1	Lecture
		Intraoral Techniques	2	Interactive session
		Intraoral Radiographic Anatomical Landmarks	1	Lecture
		Panoramic and Extraoral Radiography	2	
		Advanced Imaging	1	Lecture
		Radiographic Prescription	1	Lecture
		Principles of radiographic interpretation and differential diagnosis	1	Lecture
	Basic Dental Skills / Practice Management	Radiation hazards and protection 1	1	Lecture
		Radiation hazards and protection 2	1	Lecture
	Preclinical OMFR - Dental Hard Tissue	Radiographic interpretation of dental anomalies	1	Lecture
		Radiographic interpretation of dental caries	3	Interactive session

	Preclinical OMFR - Pulp and Periradicular Tissue	Radiographic interpretation of periradicular infections	1	Lecture
	Preclinical OMFR - Oral Mucosal and Underlying Osseous Structures	Radiographic Interpretation of Bone Diseases Affecting the Jaws	1	Lecture
	Preclinical OMFR - Gingiva and Peridontium	Radiographic interpretation of periodontal diseases	1	Lecture
	Preclinical OMFR - Neoplasia	Radiographic interpretation of Cysts and Benign tumors	1	Lecture
		Radiographic interpretation of Cysts and Benign tumors	2	Interactive session
		Radiographic Interpretation of Malignant Lesions	1	Lecture
		Differential Diagnosis of Malignant Lesions	2	Interactive session
	Preclinical OMFR - Salivary Glands	Salivary gland imaging	1	Lecture
	Preclinical OMFR - Special Care Patient	Management of patients with special needs	1	Lecture
	lab		60	
	revision and feedback		1	
Total			90	

	Assessment Title	Assessment Description	Week Due	Proportion of Total Assessment	
Continuous Assessments	Quiz 1	Knowledge/Cognitive Skills	Written assessment: MCQS	1 st sem. W7	3%
	Quiz 2	Integrated Assessment with CDS 311 OBCS 334	Written assessment: MCQs/short essay addressing "Cariology Module"	1 st sem. W10	1.5%
	Quiz 3	Integrated Assessment with OBCS 334	Written assessment: MCQs/short essay addressing "Pulpal and Periapical Module"	1 st sem. W12	1.5%
	Quiz 4	Integrated Assessment with OBCS 332 OBCS 334	Written assessment: MCQs/short essay addressing "Periodontology"	2 nd sem. W5	1.5%
	Quiz 5	Integrated Assessment with OBCS 337	Written assessment MCQs/short essay addressing "Cysts and Benign Tumors"	2 nd sem. W9	1.5%

	Quiz 6	Integrated Assessment with OBCS 337	Written assessment: MCQs/short essay addressing “Mesenchymal lesions”	2 nd sem. W12	1.5%
	Quiz 7	Integrated Assessment with OBCS 337	Written assessment: MCQs/short essay addressing “Salivary Glands”	2 nd sem. W13	1.5%
	Minimal Procedural Experiences (MPEs)	Simulated image acquisition	Simulated-MPE for : <ul style="list-style-type: none"> • Periapical radiographic taking • Bitewing radiographic taking 	Through out the year	12%
		Radiology prescription writing	Using prescription form	Through out the year	4%
		Radiology report writing	Using report form (1 &2)	Through out the year	4%
	Requirement	Self-Assessment	Oral radiology Critique sheet (1&2)	Through out the year	8%
	Student Logbook	Keeping records of own experience	Throughout the year	Affect marks assigned to clinical requirements and MPEs	
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Written assessment: MCQS	1 st sem. W10	10%
	Final Year Exam	Knowledge/Cognitive Skills	Written assessment: MCQS	2 nd sem. W16	25%
			Written assessment <ul style="list-style-type: none"> • Radiology prescription writing* • Radiology report writing* 		
	Simulated Competency Exam (SCE)	Simulated image acquisition Competency Exam*	Simulated-MPE for : <ul style="list-style-type: none"> • Periapical radiographic taking • Bitewing radiographic taking 	TBD	10%
	Objective Structured Practical Examination (OSPE)	Cognitive and critical thinking skills – Diagnostic and Interpretation skills	Midyear OSPE	1 st sem. W16	5%
			Final year OSPE	2 nd sem. W16	10%

Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations	(minus) 2%
Total			100%

Course name	Diagnostic Oral Radiology
Course code	OBCS 477
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Oral & Maxillofacial Radiology
Course type	Required
Academic year (level)	Fourth Year
Credit hours	3
Contact hours / week	3 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	OBCS 377
Course format	Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and Understanding
1.1	List the general guidelines for prescribing intraoral and extraoral radiographs according to patients' history and clinical examination.
1.2	Enumerate findings indicative of pathology (osseous, periodontal and dental) in all types of patient's radiographs (panoramic, periapical and bitewing)
1.3	Name the normal radiographic anatomy in all types of patient's radiographs (panoramic, periapical and bitewing)
1.4	Define the Artificial intelligence (AI) as general and specific in dentistry, especially oral radiology
1.5	List different osseous lesions based on their radiographic pattern and anatomical locations (periapical, pericoronal, multilocular, not related to teeth)
1.6	Name CBCT images and the image views

2	Skills
2.1	Prescribe the needed radiographs for a patient (periapical, bitewing, panoramic, CBCT) based on the chief complaint, history and clinical examination and by applying the patient selection criteria (criteria for new and recall patients)
2.2	Differentiate normal anatomical structures (incisive foramen, mental foramen, wide marrow spaces, developing tooth follicle, etc.) from lesions
2.3	Distinguish pathological conditions affecting the teeth and their supporting structures (periodontal disease, caries, restoration, fracture, attrition, abrasion and anomalies) analysis report
2.4	Apply the fundamental principles of radiographic description of lesions affecting teeth and their supporting structures
2.4	Distinguish between the different types of osseous pathological conditions evident on radiographs (periapical, pericoronal, multilocular, not related to teeth) based on their main characteristic radiographic features and clinical behavior (anomalies, cysts, benign, malignant, infections)
2.5	Correlate findings from the history, clinical and radiographic examination and other diagnostic tests to develop a differential, provisional or definitive diagnosis
2.6	Formulate differential diagnosis lists, in a most probable descending order, of osseous lesion found in a patient's radiographs (panoramic, periapical and bitewing) based on their characteristic radiographic feature
2.7	Evaluate CBCT use in dentistry in terms of indications, interpretation and dose reduction.
2.8	Use the web to search for relevant information
2.9	Write a radiographic prescription that is needed for the patient
2.10	Report all osseous, inflammatory, periodontal and dental findings in a patient's radiographs with radiographic impression, differential diagnosis and recommendation in written format
2.11	Complete patient's radiographic request and report entry in electronic health records system (R4 system)
2.12	Perform an acceptable periapical and bitewing radiographic acquisition for patients using PSP image receptor.
2.13	Implement ethics, professionalism and effective communication with supervisors, peers, auxiliaries and different patients' personalities.
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public; and comply with the institutional professional code of conducts.

3.2	Perform infection control, health and safety & radiation protection measures efficiently
3.3	Maintain own health and improving the working efficiency and productivity by controlling the proper posture motion and working area organization

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for PCC	Introduction	1	Lecture with interactive discussion
		Review on image interpretation & radiographic anatomy	1	Lecture with interactive discussion
		Alterations in supporting structures of teeth	1	Lecture with interactive discussion
The Dentist	Basic Dental Skills- Practice Management	Radiograph Prescription, Acquisition, and Interpretation on Electronic Health Record (EHR) System I	2	Practical Session with feedback
	PCC - DxTP Modifiers and Additional Skills	Cone Beam Computed Tomography	1	Lecture with interactive discussion
		Radiopacities	1	Lecture with interactive discussion
		Radiolucencies	2	Lecture with interactive discussion
		Differential Diagnosis of lesions with periosteal reaction	1	Lecture with interactive discussion
The Dentist	PCC - DxTP Modifiers and Additional Skills	Systemic diseases manifested in the jaws	1	Lecture with interactive discussion
		Soft tissue calcification and ossification	1	Lecture with interactive discussion
		Diagnostic imaging of TMJ	1	Lecture with interactive discussion
		Diagnostic imaging of Maxillary Sinus	1	Lecture with interactive discussion
		Diagnostic imaging of Trauma	1	Lecture with interactive discussion
		Diagnostic imaging of salivary glands	1	Lecture with interactive discussion

		Artificial Intelligence	1	Lecture with interactive discussion
Humanism	Feedback & Conflict Resolution	Mock OSPE and Tutorial	1	Interactive discussion
The Patient	Behavior Sciences PCC – Behavior Management	Social Determinants of Health, Illness, Behavior and Health Promotion	Recorded in OBCS468	Interactive session
The Dentist		Pain, Anxiety and Fear	Recorded in OBCS468	Interactive session
		Stress in Dentistry	Recorded in OBCS468	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 1 - The Wife	2	Interactive session (CBL)
	Behavior Management	Behavior Management	Recorded in OBCS468	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 2 - The Widow	2	Interactive session (CBL)
	Behavior Management	Behavior Change	Recorded in OBCS468	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 3 – The Stock Company CEO	2	Interactive session (CBL)
		CBL Case 4 - The Taxi Driver	2	Interactive session (CBL)
		CBL Case 5 - The Gas Station Worker	1	Mock OSPE
	PCC - DxTP Modifiers and Additional Skills	Radiograph Prescription, Acquisition, Interpretation and Differential Diagnosis	60	-Interactive discussion and feedback -Case-based learning (CBL) - Practical session with feedback
Humanism		Revision and Feedback	3	
Total				90

	Type	Assessment Activities	Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Diagnostic module	Oral Radiology Clinical orientation session: 1. Infection control, image acquisition and	1 st week	1%

		holder assembly (demonstrating on each other)		
		2. Requesting for radiograph and report writing via R4 Sign the agreement document		
	Quiz 1	Knowledge/Cognitive Skills	Paper-Based: MCQs	1 st sem. W3 5%
	Quiz 2	Knowledge/Cognitive Skills	Paper-Based: MCQs	1 st sem. W11 5%
			To develop clinical experience in oral radiology procedures, students are expected to finish the requirements listed below	
			Procedure 1: (X2) Image Prescription (X3) Image Prescription	
		Mandatory clinical various oral radiology procedures	Procedure 2: Image Acquisition of (X 8) Periapical Radiograph (X6) Bitewings Radiograph 4 Intraoral (Periapical or Bitewings Radiographs).	
	Clinical Requirements	While being marked, student will receive ample assistance and feedback on clinical skills, practice management skills and code of professional conduct.	Procedure 3: (X3) Image quality assessment Procedure 4: (X2) Image Interpretations (X4) Image Interpretations	Throughout the year 13%

			Note: The cases when students are NOT assisted by the instructor		
	Minimal Procedural Experiences (MPEs)	<p>Clinical-MPE</p> <p>Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Competency Exam (CCE).</p> <p>Your competence is dependent on your clinical skills and technical skills as well as practice management skills and adherence to code of professional conduct.</p>	<p>Clinical-MPE for each of the following procedures:</p> <p>Procedure 1: (X1) Image Prescription</p> <p>Procedure 2: Image Acquisition of (X2) Periapical Radiograph</p> <p>(X6) Bitewings Radiograph 8 Intraoral (Periapical or Bitewings Radiographs).</p> <p>Procedure 3: (X1) Image Interpretation (X5) Image Interpretation</p>	Throughout the year	6%
	In Class Activity	Discipline-Based Case-Based Learning (CBL)	<p><u>Differential Diagnosis</u></p> <p><u>CBL Activity:</u> Student will discuss a clinical case scenario with complete examination records, and radiographs, and will answer series of questions.</p>	Throughout the year	3%

			During the session, students will be assessed on their critical thinking and differential diagnosis skills.		
		<p>Case-Based Learning (CBL): Comprehensive diagnosis and treatment planning for primary care clinical (PCC)</p> <p>Group SDL Take-home Assignment and In-class individual CBL Discussions</p> <p>Case 1: The Wife Case 2: The Widow Case 3: The Stock Company CEO Case 4: The Taxi Driver</p>	<p><u>Integrated CBL Activity:</u> Students are divided into small groups (10-15), each with an instructor for student evaluation and feedback. Student will discuss 'an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions. Student work in groups to answer the questions.</p> <p>During the session, students will be assessed on:</p> <p>Assess student's cognitive skills to</p>	Based on WTT	5%

			1. apply rules of image prescription and image interpretation 2. list differential diagnosis 3. evaluate the quality of radiographic images		
	Assignments	<u>CBCT assignment:</u> Student will review CBCT images' landmark and identify the location of the proposed implant, length and width of the implant site and reporting. <u>Panoramic assignment:</u> Student will review panoramic image' landmark and lesion identification and reporting. <i>Prescription and Differential Diagnosis assignment will be at the classroom.</i>	- 1 Assignment for implant planning on CBCT image Via Blackboard (1 mark). — - 2 Assignment on Panoramic Via Blackboard (1 mark).	2 Assignments /year	2%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPes
Final Assessments	Final Year Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs (10%) And short note (20%)	1 st sem. W16	30%
	Clinical Competenc	Clinical Competency Exam*	CCE for Image	Throughout the year	10%

	y Exam (CCE)		<p>Acquisition*: (5 marks) Assess student's psychomotor skills to apply rules of image acquisition.</p> <p>CCE for R4 Radiographic Report Writing*: (5 marks) Assess student's cognitive skills to apply rules of image interpretation.</p> <p>Your competence is dependent on your clinical skills and technical skills as well as practice management skills and adherence to code of professional conduct.</p>		
	Objective Structured Practical Examination (OSPE)	<p>Simulation Virtual Reality Standardized Case*</p> <p>This exam will be pass-fail assessment of competence</p>	<p>Slide presentation and short answers to assess students' cognitive ability to apply rules of image interpretation and radiographic differential diagnosis</p>	1st sem. W16	17%
	Objective Structured Clinical Examination (OSCE)	Test clinical and procedural skills	OSCE station are designed to assess student psychomotor	2nd sem. W11	3%

			Procedural skills to apply rules of image acquisition		
	Integrated (OSPE)	Comprehensive diagnosis and treatment planning for primary care clinical (PCC)	Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning by applying rules of image interpretation and radiographic differential diagnosis	2 nd sem. W16	Grade is assigned to OBCS 468
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUF D rules and regulations			(minus) 2%
Total					100%

ORAL MEDICINE DIVISION

Course name	Oral Diagnosis & Treatment Planning
Course code	OBCS 468
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Oral Medicine
Course type	Required
Academic year (level)	Fourth Year
Credit hours	3
Contact hours / week	3 Hours/ Week

Proposed semester (s)	Full Year
Prerequisite	PATD 301
Course format	Clinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Identify the components and methods of obtaining patients' records
1.2	Recognize the most common dental complaints as pain and its different types: somatic, neurogenic and psychogenic
1.3	Identify the objectives, rationale, phases and factors influencing treatment plan (including behavioural factors) , as well as modifiers and alternative treatment plans.
1.4	Describe the different techniques used in clinical examination (extra and intra oral) in addition to methods of vital sign measurements and laboratory investigations.
2	Skills
2.1	Communicate effectively, both verbally and in writing, with patients and with different health care providers considering medicolegal implications
2.2	Obtain patient's records systematically including chief complaint and its history, (medical,dental, social, and behavioral histories)
2.3	Perform extra oral (including vital signs as blood pressure, pulse and respiratory rate) and intra oral examination evaluating normal and abnormal oral structures and functions.
2.4	Integrate knowledge, and clinical reasoning to develop diagnosis, diagnostic summary, problem list, and initial sequential dental treatment plan.
2.5	Request laboratory investigations of dental relevance with interpretation of their findings.
2.6	Manage patients' personalities, ethnicity and attitudes as well as those with anxiety or challenging behaviors as part of an interdisciplinary team and ensuring patient education
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public complying with the institutional professional code of conduct.
3.2	Document patient data and findings using the electronic health record system (R4 system) implementing infection control measures.
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The patient	Behavioral Sciences	Introduction to Behavioral Sciences I	1	Lecture
The Dentist	DxTP for PCC	Introduction to Diagnosis & Treatment Planning in Dentistry	1	Lecture
		Who is your Patient (Profiling and ASA Classification)		
The Patient	DxTP for PCC Behavioral Sciences - Communication Skills	Meet the Patient: An Introduction to Communication Skills	2	Interactive session
The Dentist	DxTP for PCC	Patient Chief Complaint and History Taking (Including Social and Behavioral History)	1	Lecture
		Extraoral Examination	2	Interactive session
		Intraoral Examination and Oral Cancer Screening		
		Diagnostic Aids: Introduction, Indications and Interpretation	1	Lecture
		Diagnostic Summary, and Generation of Problem List	2	Interactive session
		Referral and Consultation		
		Simulated Data Gathering: Communication Skills-History Taking-Behavior Management-Diagnostic Summary and Consultation Letter (Focused group session)	3	Interactive session
		Basics and Considerations of Treatment Planning	2	Interactive session
		PCC and Master Dx Orientation	1	Lecture
		Clinical Demo of Extraoral and Intraoral Examination (Clinical session)	3	Clinical Session
		Formative assessment of Extraoral and Intraoral	3	Clinical Session

		Examination (Clinical session)		
The Patient	Behavior Sciences	Social Determinants of Health, Illness, Behavior and Health Promotion	2	Interactive session
The Dentist	PCC – Behavior Management	Pain, Anxiety and Fear	2	Interactive session
		Empathy, breaking bad news and dealing with angry patients	2	Lecture
		Stress in Dentistry	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 1 - The Pakistani Wife	2	Interactive session
	Behavior Management	Behavior Management	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 2 - The Widow	2	Interactive session
	Behavior Management	Behavior Change	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 3 – The Stock Company CEO	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 4 - The Taxi Driver	2	Interactive session
		CBL Case 5 - The Gas Station Worker	1	Mock OSPE
	PCC	PCC Clinical Sessions	46	Clinical Session
Total			90	

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz	Knowledge /Cognitive Skills	Paper-Based: MCQs and Structured Essay	1st sem. W4	5%
	Quiz-Behavioral Sciences	Knowledge /Cognitive Skills	Paper-Based: MCQs and Structured Essay	2nd sem. W6	5%

			Behavioral Sciences Theory and Psychosocial History		
	Minimal Procedural Experiences (MPEs)	Clinical-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Competency Exams	Formative Assessment on the second week 4 Clinical-MPE cases: For each case, competence will be assessed based on students' ability to: 1. Communicate effectively with the patient 2. Communicate effectively with Dental team (SBAR) 3. Take full medical, behavioral, social, dental and family history 4. Record vital signs 5. Perform extra-and intra-oral examination including oral mucosal and cancer screening 6. Write a diagnostic summary and problem list. 7. Write Initial treatment planning Requirement : (X1) referral/consultation letters	Throughout the year	20%
	CBL Activity	Case-Based Learning (CBL): Comprehensive	Students are divided into groups and asked	Based on WTT	10%

		<p>sive diagnosis and treatment planning for primary care clinical (PCC)</p> <p>SDL Take-home Assignment and In-class Group CBL Discussions</p> <p>Case 1: The Gas Station Worker Case 2: The Widow Case 3: The Stock Company CEO Case 4: The Taxi Driver</p>	<p>to complete the following:</p> <p>SDL Assignment: Case-related question about the case to be discussed and are expected to submit their assignment via "blackboard" one week before the CBL session.</p> <p>Assignment will be checked for plagiarism based on the academic code of conduct.</p> <p>CBL Activity: Students are divided into small groups (10-15), each with an instructor for student evaluation and feedback. Student will discuss an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions. Student work in groups to answer the questions.</p> <p>During the session, students will be assessed on:</p> <p>2. Their ability to reach comprehensive diagnosis and</p>		
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			<p>treatment planning taking into consideration the social and behavioral component.</p> <p>3. Their ability to present a clinical case to peers.</p>		
	Electronic Student Logbook (ESL)	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Final Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	1st sem. W14	20%
	Clinical Competency Exam (CCE)	Clinical Competency Exam*	<p>CCE for the following Procedures: Data Gathering, Comprehensive Diagnosis and Treatment Planning for Adult Patient*</p> <p>Students competence will be assessed based on their ability to:</p> <ol style="list-style-type: none"> 1. Communicate effectively with the patient 2. Communicate effectively with Dental team (SBAR) 3. Take full medical, behavioral, social, dental and family history 4. Record vital signs 	Throughout the year after finishing the required MPEs	10%

			5. Perform extra-and intra-oral examination including oral mucosal and cancer screening 6. Write diagnostic summary and problem list. 7. Writing referral/consultation letters 8. Write Initial treatment planning		
	Objective Structured Clinical Examination (OSCE)	Test oral diagnostic skills and communication skills with the patient This OSCE station is pass-fail assessment of competence	OSCE station 1 is designed to assess student Procedural skills* for: 1. Extraoral/intraoral examination	2nd sem. W11	5%
			OSCE station 2 and 3 is designed to assess student communication skills and ability to integrate behavioral component* for: 1. History taking and communication skills with diverse patient population (expect different social behavioral component and/or neglect and abuse) 2. Communication skills with Dental Team (SBAR)		10%

	Integrated (OSPE)	Comprehensive diagnosis and treatment planning for primary care clinical (PCC)	Simulation Virtual Reality Standardized Cases with short answers Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2nd sem. W14	13%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Oral Medicine
Course code	OBCS 556
Faculty	Dentistry
Department / Division	Diagnostic Oral Sciences / Oral Medicine
Course type	Required
Academic year (level)	Fifth Year
Credit hours	3
Contact hours / week	3 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	MEDD 401
Course format	Clinical course
Course Learning Outcomes (CLOs)	

1	Knowledge and Understanding
1.1	Clarify the definition, epidemiology, etiology, classification, clinical picture, diagnostic basis, advanced diagnostic aids, prevention, management and prognosis of common mucosal and osseous oral lesions, TMDs, salivary gland disorders, non-odontogenic orofacial pain, oral cancer and oral manifestations of some systemic diseases relevant to dentistry.
2	Skills
2.1	Correlate between general and oral health, emphasizing the multidisciplinary approach in management of oral medicine cases, especially those with a systemic medical background
2.2	Distinguish normal oral structures from pathologic and suspicious oral and para-oral lesions by performing thorough clinical examination including oral mucosal screening for early diagnosis of oral lesions, mainly oral cancer.
2.3	Generate an evidence-based differential diagnosis, diagnosis and a prioritized patient-centered treatment plan for prevention & management of common oral lesions, salivary gland disorders and orofacial pain, with prediction of the prognosis while considering the psychological and social factors affecting oral and facial diseases..
2.4	Communicate effectively with the patients explaining their treatment needs, outcome, and maintenance plan, educating them about their oral and general health, and encouraging them to take responsibility for their oral health while managing their fear, anxiety, psychological and behavioral problems.
2.5	Communicate effectively both verbally & in writing, with peers, colleagues and other health care professionals by writing proper prescription forms (if needed), consultation and/or referral letters for suspicious oral lesions, and those whom management is beyond the scope of the general dental practitioner
2.6	Manage the most common oral lesions, and those associated with some systemic diseases by requesting proper diagnostic aids, formulating appropriate prescriptions, taking precautions, & modifications of conventional dental treatment to avoid medical emergencies in the dental setting, and referral if beyond the scope of general dentist.
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public, and comply with the institutional professional code of conduct, appraising the role of the general dental practitioner by following case progress and management, maintaining a teamwork behavior.
3.2	Operate at a competent level the electronic health records system (R4 electronic patients' file system) for documentation of all patients' information and keep reliable patients' records.
3.3	Develop self-assessment, reflection, providing, and accepting constructive criticism, understanding his/her own learning needs and seeking continuous professional development..

3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public, and comply with the institutional professional code of conduct, appraising the role of the general dental practitioner by following case progress and management, maintaining a teamwork behavior.
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List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	Review of the Basics of Diagnosis and Treatment Planning in Dentistry	2	Interactive discussion & feedback
		Oral Cancer: Epidemiology & Clinical Features	1	Lecture with interactive discussion
		Oral Mucosal and Cancer Screening		
		Interpretation of Diagnostic Aids and Laboratory Tests Results in Oral Medicine	1	Case-based learning
		Halitosis: Epidemiology, Etiology, Diagnosis and Management	1	Lecture with interactive discussion
		Master Diagnosis and Treatment Planning Museum	2	Interactive Session OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534
The Patient	The Head & Neck - Oral Mucosal and Underlying Osseous Structures "in Disease"	Acute Multiple Oral Ulcerations	1	Lecture with interactive discussion
		Recurrent Oral Ulcerations	1	Lecture with interactive discussion
		Chronic and Single Oral Ulcerations	1	Lecture with interactive discussion
		Classification of White and Red Lesions	1	Lecture with interactive discussion
		Infectious and Immunopathologic White and Red Lesions		

		Premalignant, Toxic and Reactive White and Red Lesions	1	Lecture with interactive discussion
		Oral Pigmented Lesions (1): Endogenous Pigmentation	1	Lecture with interactive discussion
		Oral Pigmented Lesions (2): Exogenous Pigmentation	1	Lecture with interactive discussion
	Neoplasia	Benign Lesions of the Oral Cavity	1	Lecture with interactive discussion
The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	Temporomandibular Joint Disorders (TMDs): Epidemiology, Etiology, Classification, Clinical Features and Management	1	Lecture with interactive discussion
	CCP - Dental Pain, Urgencies and Emergencies Module	Introduction to Orofacial Pain: Myofascial, Neuropathic Orofacial Pain and BMS	1	Lecture with interactive discussion
	CCP - Special Care and Management of Special Need	HIV infection and AIDS: Clinical Features, Diagnosis and Dental Management	1	Lecture with interactive discussion
		Immunologic Diseases (Part 1): Review of Basic Immunology & Classification of Immunologic Diseases. Etiology, Clinical Features and Dental Management of Immunodeficiency Diseases and Autoimmune Diseases: SLE	1	Lecture with interactive discussion
		Immunologic Diseases (Part 2): Etiology, Clinical Features and Dental Management of Autoimmune Diseases: Scleroderma, Rheumatoid Arthritis. Etiology, Clinical Features and Dental Management of Hypersensitivity Disorders.	1	Lecture with interactive discussion
		Oral Cancer: Treatment Modalities	1	

		Prevention and Management of Oral Complications of Cancer Therapy		Lecture with interactive discussion
		Management of ORN and MRONJ	1	Lecture with interactive discussion
	CCP - OMFS	Surgical Management of Oral Cancer	1	Lecture with interactive discussion
	DxTP for CCP - Adult, Geriatric and Special Need	Introduction to Diagnosis and Treatment Planning of Salivary Gland Diseases and Disorders	1	Lecture with interactive discussion
	CCP - OMFS	Surgical Management of Traumatic and Obstructive Salivary Gland Disorders	1	Lecture with interactive discussion
	DxTP for CCP - Adult, Geriatric and Special Need	Diagnosis and Differential Diagnosis of Salivary Gland Tumors	1	Lecture with interactive discussion
	CCP - Special Care and Management of Special Need	Hematologic Diseases 1: Classification, Etiology, Clinical Features, Diagnosis and Management of RBCs Disorders	1	Lecture with interactive discussion
		Hematologic Diseases 2: Classification, Etiology, Clinical Features, Diagnosis and Management of WBCs Disorders	1	Lecture with interactive discussion
		Bleeding and Clotting Disorders: Classification, Etiology, Clinical Features, Diagnosis and Management	1	Lecture with interactive discussion
		Normal Oral Variants, and Iatrogenic oral mucosal lesions: Etiology, Clinical Features, Diagnosis and Management	1	Lecture with interactive discussion
Humanism	Feedback & Conflict Resolution	Comprehensive Diagnosis and Treatment Planning for CCP" Quiz Courses involved: - OBCS 556 <ul style="list-style-type: none"> • OBCS 545 • CDS 511 • CDS 522 		Quiz

		<ul style="list-style-type: none"> • OMR 523 • OMR 534 		
The Dentist	<p>The Head & Neck - Oral Mucosal and Underlying Osseous Structures "in Disease Neoplasia CCP - Dental Pain, Urgencies and Emergencies</p> <p>CCP - Special Care and Management of Special Need CCP - Oral Medicine & Clinical Pharmacology Research Behavioral Management</p>	<ul style="list-style-type: none"> • Integrated case-based learning sessions with OP, OR, OMR 511, PHAD 501 (Ulcers, Red and white lesions, Pigmented lesions, Benign lesions, Orofacial pain, Immunologic diseases, Oral cancer, Salivary gland disorders, Hematologic & Hemorrhagic diseases) • Tutorials (Classification of oral lesions, Differential diagnosis & management of oral lesions, Biomedical competencies, Breaking bad news, Principles of proper reference and article search and selection) • Simulated oral medicine case presentations (primary and final) • Clinical sessions with real patients 	<p>60</p> <p>Sem 1: 2 hours x 15 weeks</p> <p>Sem 2: 2 hours x 15 weeks</p>	<ul style="list-style-type: none"> • CBLs • Clinical Sessions • Interactive Discussion (Tutorials) • Oral Presentations
Total				90 hours

Type	Assessment Activities *			Assessment Timing (In week No)	Percentage of Total Assessment Score
Continuous Assessment	Quiz 1	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay	1st sem. W7 W10 W12	4% the best mark of the three quizzes, will be counted
	Quiz 2	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay		
	Quiz 3	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay		
	Quiz 4	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay	2nd sem. W4 W7	4% the mean mark of the

	Quiz 5	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay	W10	three quizzes, will be counted
	Quiz 6	Knowledge / Cognitive Skills	Written assessment: MCQs & Short essay		
	Integrated Quiz	Knowledge / Cognitive Skills	<p>Written assessment: MCQs</p> <p>Concept assessed in this course is "Comprehensive Diagnosis and Treatment Planning for CCP"</p> <p>Quiz follows the Integrated Museum Session. Courses involved:</p> <ul style="list-style-type: none"> ● OBCS 545 ● CDS 511 ● CDS 522 ● OMR 523 ● OMR 534 	W3	2%
	Clinical Requirements & Assignments	Master DxTP – Interdisciplinary (R4 Documentation)	<p>Completed Comprehensive Diagnosis and Treatment Planning</p> <p>History taking, clinical examination, lesion description, differential diagnosis and students' case management</p>	Throughout the year	5%
		Laboratory Request and Interpretation	Completed Laboratory Request and Interpretation	Throughout the year	1%
		Consultation/Referral Letter Writing	Completed Consultation/Referral Letter Writing	Throughout the year	1%
		Prescription Writing	Completed Prescription Writing	Throughout the year	2%
	In-Class Activity	Oral Medicine CBL and Flipped Classroom Activities	<p>Oral Medicine CBL Activity: 9 CBL Activities</p> <p>Cases and reference are sent a week ahead of</p>	Based on WTT	5%

			<p>the session to all students to prepare the topic for small group classroom discussion</p> <p>Students are expected to:</p> <ol style="list-style-type: none"> 1. Develop questioning strategy to investigate the chief complaint for patients presenting with different oral lesions. 2. Correlate clinical and histopathologic features of oral lesions 3. Deduce differential diagnosis and diagnosis for different oral lesions. 4. Suggest management strategies for patients with oral lesions, including request and interpretation of proper diagnostic aids 5. Appropriately prescribe drugs (if applicable). 6. Write referral and consultation for oral lesions, which management is beyond the scope of the general dentist. <p>Students submit their case answers prior to the session, are graded for their submitted assignments, as well as for their in-class discussion (rubric for CBL grading)</p>		
	Oral Presentation -Initial	Oral Medicine Clinical Case Presentation – Initial Presentation	<p>Oral Medicine Case Presentation</p> <p>Students receive feedback from assigned instructors, then from panel during presentation and prepare for final presentation</p> <p>The assigned supervisor grades the student</p>	Based on WTT	<p>Initial Presentation: Formative with self-assessment</p> <p>2% (Supervisor's evaluation)</p>

			according to a rubric to assess his/her work throughout the case		
	Comprehensive Care Practice (CCP) Presentation	CCP Case Presentation	Each student will present a CCP case Marks assigned equally to all involved courses <ul style="list-style-type: none"> • OBCS 556 • OBCS 545 • CDS 511 • CDS 522 • OMR 523 • OMR 534 	Based on WTT	2%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Midyear Exam	Knowledge / Cognitive Skills	Written assessment: MCQs and Short Answers	1st sem. W16	15%
	Final Year Exam	Knowledge / Cognitive/ Communication Skills	Written assessment Paper 1: MCQs and Short Answers Paper 2: <ul style="list-style-type: none"> • Referral Letter and/or Prescription* • Laboratory Request and Interpretation* 	2nd sem. W16	30%
	Objective Structured and Practical Examination (OSPE)	Clinical knowledge and problem-solving skills in oral medicine	Case-Based Written Exam with Short Answers	2nd sem. W16	10%
	Oral Presentation -Final	Oral Medicine Clinical Case Presentation – Final Presentation Pass/Fail Exam	Oral Medicine Case Presentation*	2nd sem. Based on schedule	10%

	Oral Medicine Topic Review	Research Skills	Students search for and present a recent article relevant to their assigned simulated cases as part of their final presentation and are assessed as part of the rubric of the final presentation.	2nd sem. Based on schedule	
		Presentatio n Skills and Teamwork	These skills are assessed during oral medicine presentations, and CCP presentations. Teamwork is assessed in classwork activities. The assessment grades are part of the rubrics used in these presentations and activities.	2nd sem. Based on schedule	
	Objective Structured Clinical Examinati on (OSCE)	Test clinical and procedural skills Pass/Fail Station	OSCE Station 1*: Oral Mucosal and Cancer Screening and Breaking Bad News Students are expected to: 1. Communicate with patient effectively 2. List techniques used for intraoral mucosal examination 3. Perform intraoral examination in a systematic way. 4. Describe the examination techniques used in each step and the findings in terms of normal anatomical landmarks (buccal mucosa, palate, tongue, and floor of the mouth), and abnormal findings if applicable.	2nd sem. Based on schedule	2.5%

			<p>OSCE Station 2*: Generate differential diagnosis and diagnosis of oral lesions</p> <p>Students are expected to:</p> <p>1. Take relevant medical history.</p> <p>2. Deduce at least 2 differential diagnoses of these oral lesions.</p> <p>3. State other information/tests needed to reach a definitive diagnosis</p> <p>4. Interpret the results of the diagnostic tests</p> <p>5. Mention the most probable diagnosis of oral lesions in this patient.</p> <p>6. Justify diagnosis</p>	2nd sem. Based on schedule	1.5%
			<p>OSCE Station 3*: As part of behavioral management, students' ability to properly break bad news empathically to patients according to SPIKES model is assessed using a rubric.</p> <p>This skill was taught to them in 4th year, reinforced in 5th year as role-play, then assessed in an OSCE station</p>	2nd sem. Based on schedule	1%
	Integrated (OSPE)	Comprehensive Diagnosis and Treatment Planning for Comprehensive Practice (CCP)	Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2nd sem. W18	2%
Professionalism	Ethics and Professionalism	Deducted from total marks in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDD rules and regulations			(minus) 2%
Total					100%

ORAL BIOLOGY DEPARTMENT (OBCS)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Oral Biology & Nutrition	OBCS 411	411 ماس	4	2	2	0	4	BIO 101

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
4th	Oral Biology & Nutrition	OBCS	411

Course name	Oral Biology & Nutrition
Course code	OBCS 411
Faculty	Dentistry
Department / Division	Oral Biology
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4
Contact hours / week	4 Hours/ Week
Proposed semester (s)	Full Year
Prerequisite	BIO 112
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	

1	Knowledge and Understanding
1.1	Recognize the common and important biological principles in oral tissues, to be aware of the biological behavior and the relevance in clinical settings and/or disease.
1.2	Describe the basic normal biological processes of oral cavity structures. and the etiology, pathogenesis, structural and functional manifestations of diseases that affect the oral cavity to place specific diseases in context with their prevalence, morbidity and mortality in society as a whole based on knowledge of their biological behavior.
1.3	Recognize the effect of balanced nutrition on the biology of oral structures on oral health and general health.
1.4	Identify the biological effects of tobacco on the general and oral health, as well as dentist role in smoking cessation to promote general and oral health.
2	Skills
2.1	Relate the oral biological processes to their clinical application interpreted by the clinicians.
2.2	Indicate the relevant ways in which laboratory investigation can establish the true nature of the illness, monitor its progress and response to therapy and correlate it to the biological principles taught.
2.3	Apply acquired knowledge in identifying problems and formulating questions clearly and precisely; test emerging hypotheses against evidence, criteria, and standards; evaluate assumptions, implications, and consequences, and transfer this knowledge to clinical situations.
2.4	Define and describe the elements of "annotated bibliography".
2.5	Communicate effectively verbally & writing, with peers, colleagues & faculty.
2.6	Identify reliable resources and use the internet effectively to conduct a search.
2.7	Obtain diet analysis and provide brief diet counseling.
2.8	Use 5As technique for brief intervention for smoking cessation.
3	Values
3.1	Practice Self and Long life learning. Work in a team effectively

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
		How to do proper search	2	Interactive

The Dentist	Basic Dental Skills - EBD (Level 1)	<u>Introduction to Evidence-Based Dentistry (EBD-Part 1)</u>	2	session
Building Blocks	Basic Sciences	<u>Introduction to Core Topics in Oral Biology/</u> Concept Maps Workshop	2	Lecture
		The Cell - Part 1 (Assessment of Previous Knowledge)		
		<u>The Cell - Part 2 (Know More)</u>	2	Lecture
		<u>The Extracellular Matrix: the Control Tower of Cellular Process (Part 1)</u> <u>Composition and function</u>	2	Interactive session
		<u>Extracellular Matrix; the Control Tower of Cellular Process (Part 2)</u> <u>The Role in Inflammation and wound healing</u>	2	
The Patient	The Body System / "IBLS - in Disease"	Inflammation and Wound Healing 1 - Assessment of Previous Knowledge and Application in Dentistry	2	Interactive session
		Inflammation and Wound Healing 2 – Application in Dentistry	2	Interactive session
	Neoplasia	<u>Biology of Oral Cancer</u>	2	Interactive session
	Molecular Biology, Physiology, and Genetics	<u>Stem Cells</u>	2	Interactive session
Humanism	Feedback & Conflict Resolution	Revision & Quiz Feedback	2+2	Quiz
The Dentist	PCC - Behavioral Management/Patient Education	<u>Smoking Cessation - The 5 As</u>	2	Theory & Role Play
		Smoking Cessation - The 5 As (Clinical based scenarios)	2	
The Patient	The Head & Neck / The Gingiva and Periodontium in Disease	<u>Oral Biology and Periodontal Disease</u>	2	Interactive session
		<u>Oral Biofilm (Periodontal point of view)</u>	2	Interactive session
	The Head & Neck / The	Oral Biology and Caries	2	Interactive session

	Dental Hard Tissue in Disease	Oral Biofilm (Cariological Point of View)	2	Interactive session
		<u>Bone Biology</u>	2	Interactive session
		<u>Biology of the pulp during health and disease</u>	2	Interactive session
	Nutrition	Nutrition - The Basics of Diet & Nutrition	2	Interactive session
		<u>Nutrition - Obesity, Diabetes and Diet</u>	2	Interactive session
		<u>Nutrition - Diet, Oral Health and General Health: A Healthy Lifestyle</u>	2	Interactive session
The Dentist	PCC - Behavioral Management/Patient Education	<u>Nutrition - Diet Analysis, Counselling and Behavioral Management (part 1)</u> (Collaborative with CDS 411)	2	Theory & Role Play
		Diet Analysis -Counselling and Behavioral Management (part 2) (Clinical based scenarios)	2	
Humanism	Feedback & Conflict Resolution	Revision & Quiz Feedback	2+2	Quiz
The Patient	The Head & Neck / Salivary Glands - in Health	<u>Saliva</u>	1	TBL
	The Head & Neck / Salivary Glands - in Disease	<u>Saliva</u>	1	TBL
The Dentist	PCC - DxTP Modifiers and Additional Skills	<u>Saliva as a Diagnostic Tool</u>	2	Interactive session
		<u>Bridging Oral Biology and Clinical Dentistry</u>	2	Interactive session
		Risk Factors in Oral Diseases - Biological Aspect (Biology of Oral Cancer)	2	Interactive session
	Basic Dental Skills / Scientific Inquiry and	<u>Oral Biology and Advances in Research</u>	2	Interactive session

	Research (Level 3)			
		<u>Searching Medical databases and selecting a scope for writing the literature review</u>	2	Interactive session
		<u>Feedback & discussion</u>	2	Interactive session
		<u>The anatomy of a research article</u>	2	Interactive session
		<u>Feedback & discussion</u>	2	Interactive session
		<u>Reading the literature (Introduction to <u>critical reading</u>)</u>	2	Interactive session
		<u>Feedback & discussion</u>	2	Interactive session
		Reading Literature review in the field	2	Interactive session
		Outline the literature review headings and selecting original articles to be included in the review	2	Interactive session
		Critical reading of the selected articles	2	Interactive session
		Introduction to RefWorks Citation Manager	2	Interactive session
	Basic Dental Skills / Scientific Inquiry and Research (Level 3)	Writing the body of the literature review	2	Interactive session
		Writing the conclusion of the literature review	2	Interactive session
		Writing the introduction of the literature review	2	Interactive session
		Writing the abstract of the literature review	2	Interactive session
	Basic Dental Skills / Scientific Inquiry and Research (Level 3)	Trip to the Research Lab	4	Practical Session

Humanism	Feedback & Conflict Resolution		2+2	CBL
	Feedback & Conflict Resolution		1+1	SDL
Total			104	

	Assessment Activities			Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz-EBD	Knowledge/ Cognitive Skills	Paper-Based: MCQs and Short Answers Assess student knowledge and cognitive ability to: Student should be able to: 1. Describe and classify type of evidence 2. Formulate a clinical question 3. Answer a clinical question using "PICO" 4. Identify best available evidence	1 st sem. W5	5%
	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essays	1 st sem. W11	5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essays	2 nd sem. W5	5%
	Quiz-Research Skills	Knowledge/ Cognitive Skills	Paper-Based: MCQs and Short Answers Assess student knowledge and ability to: 1. Identify keywords in relation to a particular topic 2. Identify reliable resources and use the internet effectively to conduct a search 3. Define and describe the elements of "annotated bibliography" 4. Make sense of citations 5. Describe CASP "critical appraisal tool"	2 nd sem. W8	4%

	TBL Activity	Thinking-Based Learning Activity – Saliva as a diagnostic tool module	Students expected to answer to a pop-quiz and complete the TBL activity. Students will get a feedback during session	Based on WTT	Formative
	SDL Assignment	Student-Directed Learning (SDL) Assignment - Diet Analysis Integrated with CDS 411	Each student is asked to write a diet diary for 3 days. They then exchanged diets with a partner and each student analyses their partner's diet and submit the assignment as indicated. Usually student is given a time limit of 1 month to complete the assignment. Student practices with a partner on obtaining diet diary and providing brief diet counseling to prepare for OSCE competency exam. Student can arrange for personal tutoring with OB course director.	TBD	6%
	Journal Club Assignment	Research Skills – Annotated bibliography	During the Oral Biology Course students are asked to 1. Write an annotated bibliography about one of the following topics: <ul style="list-style-type: none"> • Cancer Biology questions • Bone Regeneration • Saliva • any clinically relevant topic 2. Critically appraise one of the article using CASP	TBD	6%
Final Assessments	Midyear Exam	OB - Knowledge/ Cognitive Skills	Paper 1- Oral Biology: MCQs	1 st sem. W16	20%

		EBD- Knowledge/ Cognitive Skills	Paper 1- EBD: MCQs and short answers*	1 st sem. W16	4%
	Final Year Exam	OB - Knowledge/ Cognitive Skills	Paper 1- Oral Biology: MCQs and Structured Essays	2 nd sem. W16	30%
		Clinical Application - Knowledge/ Cognitive Skills	Paper 2- Clinical Application: MCQs and short answers	2 nd sem. W16	5%
	Objective Structured Clinical Examination (OSCE)	Behavioral Management Component*	OSCE Station 1*: Designed to assess student ability to: 1. Obtain diet analysis 2. Give brief diet counseling Integrated with CDS 411	2 nd sem. W11	5%
		Theory covered in OBCS 468	OSCE Station 2*: Designed to assess student ability to: 1. Using 5As technique for brief intervention for smoking cessation Integrated with OBCS 445		5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

PERIODONTOLOGY DEPARTMENT (OBCS)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Periodontics	OBCS 445	ساس 445	4	1	0	3	4	HIED 201
Periodontics	OBCS 545	ساس 545	4	1	0	3	4	OBCS 445

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
4th	Periodontics	OBCS	445
5th	Periodontics	OBCS	545

Course name	Periodontics
Course code	OBCS 445
Faculty	Dentistry
Department / Division	Periodontology
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4
Contact hours / week	4 Hours/Week

Proposed semester (s)	Full Year
Prerequisite	HIED 201
Course format	Clinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Describe basic clinical criteria of healthy and diseased gingival tissue, evaluating the etiology (local and systemic) of periodontal diseases and periodontal systemic relationship considering classification of diseases affecting the periodontium.
1.2	Identify periodontal instruments and the characteristic functions of them
1.3	Recognize the importance of periodontal epidemiology, social, and behavioral applied sciences and their role in public health dentistry
2	Skills
2.1	Perform patient interviews to analyze their social and behavioral background, assessing patients for the presence of etiologic (local and systemic) and risk factors contributing to periodontal diseases.
2.2	Perform comprehensive periodontal charting in order to diagnose periodontal diseases and conditions by recording numerical measurements, as probing depth, clinical attachment loss, etc and calculating periodontal indices to reach diagnosis.
2.3	Develop an individual, comprehensive, sequenced treatment plan for periodontally healthy patients, patients with gingival diseases, and patients with periodontitis up to generalized moderate chronic periodontitis
2.4	Educate patients about oral and general health, considering consultation and referral of the patients as needed for advanced periodontitis cases.
2.5	Perform non-surgical therapy for patients with periodontal disease (choosing the proper instrument)
2.6	Evaluate the outcomes of periodontal treatment
3	Values
3.1	Demonstrate honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public, complying with the institutional professional code of conduct.
3.2	Write periodontal measurements electronically, using the electronic health records system (R4 system) while maintaining infection control measures.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for PCC	Anatomy of the Periodontium and Comprehensive Periodontal Examination	2	Interactive session
		2017 Classification of Periodontal Conditions (The Big Tree)	2	Interactive session
		Diagnosis of Plaque Induced Gingivitis and Periodontitis	2	Interactive session
		Anatomy of the Periodontium and Comprehensive Periodontal Examination (2 sessions)	4 hours each session	Clinical Demo & Practice
		Local Factors that Modify or Predispose to Periodontal Diseases	1	Lecture
		Risk Assessment for Periodontal Diseases	1	Lecture
		Basics and Considerations of Treatment Planning (Host: OBCS 468)	2	Interactive session
The Patient	PCC-Periodontology	Primary Care Dentistry (Collaborative with CDS 411)	1	Lecture
	PCC - Behavioral Management	Patient Motivation and Plaque Control	1	Theory and Role Play
	PCC - Behavioral Management/ Patient Education	Oral Hygiene Instructions (OHI)	2	Clinical Demo
	Behavior Sciences	Smoking Cessation the 5A's	2	Practical session

	PCC - Periodontology	Non-surgical Periodontal Therapy	1	Lecture
		Periodontal Instruments and Instrumentation (2 sessions)	2 hours each session	Phantom Lab
	PCC - Preventive Dentistry	Supportive Periodontal Therapy (SPT)	1	Lecture
	PCC - Maintenance and Assessment of Treatment Outcome Behavior science	Prognosis of Periodontal Diseases	1	Lecture
		Healing and Non-surgical Treatment Outcome	1	Lecture
		Systemic Diseases and Conditions that Affect the Periodontal Attachment Apparatus	2	Interactive Session
		Effect of Smoking and Diabetes on the Periodontal Attachment Apparatus	1	Lecture
		Smoking Cessation- The 5As	2	Practical session
		Impact of Periodontal Infection on Systemic Health	1	Lecture
The Dentist	PCC - DxTP Modifiers and Additional Skills	Mucogingival Conditions: Etiology, Clinical Presentation, and Non-Surgical Management	1	Lecture
The Patient	Behavior Sciences	Social Determinants of Health, Illness, Behavioral and Health Promotion	2	Interactive session
The Dentist	PCC - DxTP Modifiers and Additional Skills	Epidemiology of Periodontal Diseases	1	Lecture
	PCC – Behavior Management	Pain, Anxiety, and Fear	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	Role of Occlusal Factors in Periodontal Diseases	1	Lecture
	PCC – Behavior Management	Stress in Dentistry	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	Gingival Enlargement; Etiology, Clinical Presentation, and Non-Surgical Management	1	Lecture

The Dentist		Acute periodontal conditions	1	Lecture
		CBL Case 1 The Pakistani Wife	2	Interactive session
	Behavioral Management	Behavior Management	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 2 the Widow	2	Interactive session
	Behavioral Management	Behavioral change	2	Interactive session
	PCC - DxTP Modifiers and Additional Skills	CBL Case 3 – The Stock Company CEO	2	Interactive session
		CBL Case 4 The Taxi Driver	2	Interactive session
		CBL Case 5 The Gas Station Worker	1	Mock OSPE
		PCC Clinical Sessions	60	Clinical sessions
Total				120

#	Assessment Activities			Week Due	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W12	5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem. W5	5%
	Clinical Requirements	Mandatory graded clinical procedures to enter the final written exam.	Procedure 1: (X3 cases) (total of 8 quadrants, 2 quadrants practice on each other and 6 quadrants on patients) Comprehensive periodontal examination and diagnosis	Throughout the year	20% (include clinical requirements and MPES)
		While being marked, students will receive ample assistance and feedback on their clinical skills, practice management skills and	Procedure 2: Minimum scaling of 12 teeth with calculus. Procedure 3: (X2 cases) Patient Education and Oral Hygiene Instruction for adult patient		

		code of professional conduct.			
		This Requirement is needed to fulfill patients' Comprehensive Care. It is graded but is not mandatory to enter the final written exam.	Procedure 4: re-evaluation of phase 1 therapy (X1 case) Your competence is dependent on your ability to: <ul style="list-style-type: none"> Perform periodontal examination at re-evaluation step. Assess response to phase 1 therapy Prescribe a maintenance plan 	Throughout the year	
	Minimal Procedural Experiences (MPEs)	Clinical-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter the following Competency Exams: <ol style="list-style-type: none"> Clinical Competency Exam (CCE) for <u>procedure 1</u> (periodontal examination) OSCE for competency of <u>procedure 2</u> 	Clinical-MPE for each of the following procedures: Procedure 1: <u>(Two unassisted quadrants out of the 8 required quadrants)</u> Comprehensive periodontal examination Your competence is dependent on your ability to do: <ol style="list-style-type: none"> Comprehensive periodontal examination practice management skills and adherence to code of professional conduct. Procedure 2: Minimum scaling of 5 teeth with calculus unassisted out of the 12 required teeth Your competence is dependent on your ability of: <ol style="list-style-type: none"> Instruments identification. Instruments handling and application Positioning yourself in the correct operator position. Practice management skills 	Throughout the year	

			and adherence to code of professional conduct.		
	CBL Activity	<p>Case-Based Learning (CBL): Comprehensive diagnosis and treatment planning for primary care clinical (PCC)</p> <p>Individual SDL Take-home Assignment and In-class Group CBL Discussions</p> <p>Case 1: The Gas Station Worker Case 2: The Widow Case 3: The Stock Company CEO Case 4: The Taxi Driver</p>	<p>Students are divided into groups and asked to complete the following:</p> <p><u>Self-Directed Learning Assignment:</u> Student will receive discipline-related question about the case to be discussed and are expected to submit their assignment via “blackboard” one week before the CBL session.</p> <p>Assignment will be checked for plagiarism based on the academic code of conduct.</p> <p><u>CBL Activity:</u> Students are divided into small groups (10-15), each with an instructor for student evaluation and feedback. Students will discuss an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions. Students work in groups to answer the questions.</p> <p>During the session, students will be assessed on:</p> <ol style="list-style-type: none"> 1. Their ability to reach comprehensive diagnosis and treatment planning taking into consideration the medical, social and behavioral component. 2. Their ability to present a clinical case to peers. 	Based on Weekly Time Table	5%

			<p>With special focus on the following parameters in relation to OBCS 445</p> <p>Case 1: The Gas Station Worker</p> <ul style="list-style-type: none"> To appropriately draft OHI to educate the patient <p>Case 2: The Widow</p> <ol style="list-style-type: none"> Identification of risk factors Acknowledge the effect of systemic disease on periodontal health Acknowledge the effect of periodontal disease on systemic health <p>Case 3: The Stock Company CEO</p> <ul style="list-style-type: none"> Identify mucogingival problems and reach a diagnosis Acknowledge the need of referral for surgical management of periodontal diseases. <p>Case 4: The Taxi Driver</p> <ol style="list-style-type: none"> Acknowledge the effect of smoking on periodontal health 		
	Student Logbook (SL)	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	1 st sem. W16	15%
	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	2 nd sem. W16	20%
	Clinical Competency	Clinical Competency Exam*	CCE for the following Procedures*:	Throughout the year	12%

	Exam (CCE)		1. Comprehensive periodontal examination including: gingival criteria, plaque and bleeding indices, furcation, mobility, fremitus, mucogingival deformities, and probing depth.	after finishing the required MPEs	
	Objective Structured Practical Examination (OSPE)	Diagnostic Skills in Periodontology on Simulation Virtual Reality Standardized Case	OSPE is designed to assess students ability to: 1. Reach periodontal diagnosis based on clinical scenarios 2. identify different periodontal examination tools and techniques 3. Write Maintenance Plan based on case reevaluation to phase I therapy 4. Select the proper non-surgical periodontal treatments of different periodontal conditions		10%
	Objective Structured Clinical Examination (OSCE)	Test clinical procedural skills, and behavioral management This OSCE station is pass-fail assessment of competence	OSCE Station 1: designed to assess student Clinical knowledge and procedural skills* for: 1. Instrument identification 2. Application of instruments for scaling 3. Operator position during scaling of a selected posterior tooth OSCE Station 2: designed to assess student Clinical knowledge and procedural skills* for: 1. Instrument identification 2. Application of instruments for scaling 3. Operator position during scaling of a selected anterior tooth	2 nd sem. W11	8%

			OSCE Station 3*: Designed to assess student ability to: 1. Using 5As technique for brief intervention for smoking cessation Integrated with OBCS 411		Mark assigned in OBCS 411
	Integrated (OSPE)	Comprehensive diagnosis and treatment planning for primary care clinical (PCC)	Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2 nd sem. W14	Grade is assigned to OBCS 468
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDRules and regulations			(minus) 2%
Total					%100

Course name	Periodontics
Course code	OBCS 545
Faculty	Dentistry
Department / Division	Periodontology
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	OBCS 445
Course format	Clinical course
Course Learning Outcomes (CLOs)	

1	Knowledge and Understanding
1.1	Recognize related applied biomedical sciences, etiology, risk factors, and prevalence of the gingival and periodontal diseases and conditions in Saudi Arabia
1.2	Identify the chief complaint / concern, clinical manifestations, diagnosis and management of periodontal diseases of the patient (adult, as well as the unique needs of women, geriatric, and special needs patients), including patients with periodontal emergencies
2	Skills
2.1	Perform thorough periodontal case assessment including comprehensive history taking, periodontal clinical and radiographic examination to assess patient's physical, periodontal and psychosocial conditions, reach periodontal diagnosis, and prognosis and formulate a comprehensive sequential treatment plan.
2.2	Communicate effectively with patients, peers, instructors, and clinical staff, demonstrating the importance of interdisciplinary consultation and referral concept for the patients.
2.3	Operate total patient care including arranging patient's appointments, treatment and follow up (to evaluate the outcomes of periodontal treatment), patient education about their periodontal disease or condition, as well as oral hygiene maintenance instructions.
2.4	Manage periodontal patients, including performing non-surgical therapy, management of periodontal emergencies (as periodontal abscess), and of mutilated teeth, prescription of medications, and referral of cases beyond the scope of a general dentist.
2.5	Develop a periodontal maintenance program with customized oral hygiene instructions to promote disease prevention per patient's needs.
3	Values
3.1	Demonstrate altruism, honesty, integrity, and respect with patients, families, colleagues, supervisors and others with whom dentists must interact in their professional lives, while showing teamwork appreciation and working under stress with acceptable level of professionalism
3.2	Maintain safe dental practice by using data entry in the electronic health records system (R4 system) and performing infection control measures.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	-Course Orientation -2017 Classification of Periodontal Conditions (The Big Tree)	2	Lecture with interactive discussion

		Revision of Previous Concepts (3rd and 4th year)	2	Lecture with interactive discussion
		Healthy Gingiva versus Gingivitis and Periodontitis		
		Rationale of Re-evaluation, Surgical Phase, Supportive Periodontal Therapy	2	Lecture with interactive discussion
	DxTP for CCP - Adult, Geriatric and Special Need	Master Diagnosis and Treatment Planning Museum	2	Interactive Session OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534
	CCP – Periodontology	Chemotherapeutic Management of Periodontal Diseases -1	1	Lecture with interactive discussion
		Chemotherapeutic Management of Periodontal Diseases - 2	1	Lecture with interactive discussion
		Surgical Management of Periodontal Disease – Gingival Surgical Techniques	1	Lecture
		Surgical Management of Periodontal Disease – Pocket Reduction Therapy and Resective Surgery	2	Lecture with interactive discussion
	The Dentist	CCP- Periodontology	1	Lecture with interactive discussion
		Surgical Management of Periodontal Disease – Reconstructive Surgery		
		Management of Furcation Involvement		
		Resective/ Reconstructive Surgery and Furcation Involvement	2	Lecture with interactive discussion
	CCP - Dental Pain, Urgencies and Emergencies Module	Acute Periodontal Infection and Periodontal Abscess (Etiology and Management)	1	Lecture with interactive discussion
		Periodontal- Endodontics Interrelation	Counted in CDS 522	Lecture with interactive discussion

		Endodontic & Periodontal Inter-relationship	Counted in CDS 522	Integrated CBL with CDS 522
		Dental Pain, Dental Urgencies and Emergencies (Host: CDS 522)	Counted in CDS 522	Integrated CBL with CDS 522
	CCP - Periodontology	Preparation of the Periodontium for Restorative Treatment/Restorative Inter-Relationships (Supra Crestal Attachment)	1	Lecture with interactive discussion
	CCP - Assessment and Management of Mutilated Teeth Module	Pre-Treatment Assessment of Mutilated Teeth (Periodontal Perspective)	1	CBL
		Crown Lengthening	1	Lecture with interactive discussion
		Decision Making in Assessment and Management of Mutilated Teeth (Host: OMR 534)	Counted in OMR 534	Integrated CBL with OMR 534, CDS 511
	CCP – Esthetics in Dentistry	Periodontal Plastic Surgery	2	CBL
		Esthetics in Dentistry (Host: CDS 511)	Counted in CDS 511	Integrated CBL with CDS 511, CDS 522, OMR 534
	CCP - Maintenance and Assessment of Treatment Outcome (Integrated Modul	Influence of Oral Environmental Factors on Different Restorative Materials (CDS 511)	Counted in CDS 511	Lecture with interactive discussion
		Failures of Different Restorations (CDS 511)	Counted in CDS 511	Lecture with interactive discussion
		Post-Operative Hypersensitivity (CDS 511)	Counted in CDS 511	Lecture with interactive discussion
		Endodontic Treatment Outcome (Part I) (CDS 522)	Counted in CDS 522	Lecture with interactive discussion
		Endodontic Treatment Outcome (Part 2) (CDS 522)	Counted in CDS 522	Lecture with interactive discussion

		Periodontal Considerations in Prosthodontics (OMR 534)	Counted in OMR 534	Lecture with interactive discussion
		Failures in Fixed Prosthodontics (OBCS 534)	Counted in OMR 534	Lecture with interactive discussion
		Maintenance in Fixed Prosthodontics (OMR 534)	Counted in OMR 534	Lecture with interactive discussion
		Dental Implant Assessment of Treatment Outcome	Counted in OMR 521	Lecture with interactive discussion
		Maintenance Treatment Plan	1	Lecture with interactive discussion
		Post-Treatment Imaging: EBD Application (Oral Radiology)	1	Lecture with interactive discussion
		Maintenance and Assessment of Treatment Outcomes	2	Integrated CBL with CDS 511, OMR 534, OMR 521, OMR 523
	CCP - Periodontology	Periodontal Treatment (One-to-One-Hands-on) in 1 st semester	3	Clinical session
		CCP clinical sessions 1 st Semester: 3 h x15 weeks = 45 hours 2 nd semester: 3 h x15 weeks= 45 hours	90	Clinical sessions
Total				120

	Assessment Activities			Week Due	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Written assessment: MCQs	1st sem. W1	5%
	Quiz 2	Knowledge/ Cognitive Skills	Written assessment: MCQs	2nd t sem. W5	5%
	Integrated Quiz	Knowledge/ Cognitive Skills	Concept assessed in this course is "Assessment of Treatment Outcome"	2nd sem. W12	5%

			<p>Quiz follows the Integrated CBL Session. Courses involved:</p> <ol style="list-style-type: none"> 1. OBCS 545 2. CDS 511 3. CDS 522 4. OMR 534 5. OMR 523 6. OMR 521 <p>Collaboration with Oral Radiology</p>		
	Clinical Requirements	<p>Mandatory clinical periodontal procedures.</p> <p>While being marked, student will receive ample assistance and feedback on your clinical skills, practice management skills and code of professional conduct.</p>	<p>Periodontal Procedures are assigned certain weights (check MPE form)</p> <p>In each procedure students will be evaluated, based on rubric, either:</p> <ol style="list-style-type: none"> 1. Incompetent and needs improvement = 0 2. Competent = 1 3. Proficient = 2 <p>Students are required to build their skills through acquiring points. Points are calculated based on the "weights of the procedure" x "level of competence"</p> <p>Students must accumulate at least 300 points to be eligible for the written exam and must show competence in the MPEs to be eligible for the Competency Exams.</p> <p>Clinical requirement grade distribution will be as follows:</p> <ol style="list-style-type: none"> 1. 300-349 equivalents to 	Throughout the year	20%

			14 marks out of 20 2. 350-399 equivalents to 15 marks out of 20 3. 400-449 equivalents to 16 marks out of 20 4. 450-499 equivalents to 17 marks out of 20 5. 500-549 equivalents to 18 marks out of 20 6. 550-599 equivalents to 19 marks out of 20 7. 600+ equivalents to 20 marks		
	Minimal Procedural Experiences (MPEs)	Clinical-MPE Students must complete the "minimum" required number of specific procedural experience independently, and competently. After which, student will be eligible to enter Competency Exams 1. Calculus detection Patient-Based 2. Diagnosis, Patient education, promotion of oral hygiene,	Clinical-MPE for each of the following procedures: Procedure 1: (X1 MPE) Periodontal examination and diagnosis Procedure 2: (X2 MPEs) Calculus Detection: 1. Identify instruments 2. Instruments handling and application 3. Operator position 4. Clinical skills for supra- and subgingival scaling 5. Practice management skills and adherence to code of professional conduct. Procedure 3:	Throughout the year	

		<p>Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.</p>	<p>(X2 MPEs) Subgingival Root Planning</p> <p>Procedure 4: (X1 case) Patient Education for Special Need Patient</p> <p>Procedure 5: (X1 case) Oral Hygiene Instruction for Special Need Patient</p> <p>Your competence is dependent on your ability to:</p> <ul style="list-style-type: none"> Communicate efficiently and effectively with the patient Address patient special need 		
	CBL Activity	<p>Assessment of Treatment Outcome Case-Based Learning (CBL):</p> <p>Individual SDL Take-home Assignment and In-class Group CBL Discussions</p>	<p>Students are divided into groups and asked to discuss cases related to assessment of treatment outcome.</p> <p>Representative of the group randomly selected to present the case.</p> <p>Groups will be formatively evaluated based on their ability to:</p> <ul style="list-style-type: none"> Address clinical questions Represent the case <p>This module will be assessed through the integrated quiz</p>	Based on WTT	Formative

	Comprehensive Care Practice (CCP) Presentation	Case Presentation	<p>Each student will present a CCP case</p> <p>Marks assigned equally to all involved courses (1% each course)</p> <ul style="list-style-type: none"> • OBCS 556 • OBCS 545 • CDS 511 • CDS 522 • OMR 523 • OMR 534 	Based on WTT	1%
	Student Logbook	<p>Keeping records of own experience</p> <p>Students need to update the online point system bi-weekly to monitor their progress. It is required to keep copy of your clinical mark record since losing them will forfeit the points you collected.</p>		Throughout the year	Affect marks assigned to clinical requirements and MPes
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Written assessment: MCQs, Short Answers and Structured Essay	1st sem. W16	10%
	Final Year Exam	Knowledge/Cognitive Skills	Written assessment: MCQs, Short Answers and Structured Essay	2nd sem. W16	20%
	Clinical Competency Exam (CCE)	Clinical Competency Exam*	Patient-Based CCE-1*: Calculus detection	Throughout the year after finishing the required MPes	10%
			Patient-Based CCE-2*: Subgingival calculus removal		10%
	Objective Structured Practical Examination (OSPE)	<p>Diagnostic Skills in Periodontology on Simulation Virtual Reality Standardized Case*</p> <p>This exam is pass-fail assessment of competence</p>	<p>Written case-based assessment: OSPE is designed to assess students' ability to:</p> <ul style="list-style-type: none"> • Reach periodontal diagnosis based on clinical scenarios* • Identify different periodontal examination tools and techniques* • Write Maintenance Plan based on 		5%

			case reevaluation to phase I therapy* <ul style="list-style-type: none"> Select the proper non-surgical periodontal treatments of different periodontal conditions 		
	Objective Structured Clinical Examination (OSCE)	Test communication skills with the patient, and behavioral management* These stations are pass-fail assessment of competence	OSCE Station 1*: designed to assess student competence in Periodontal Diagnosis and Patient Education. <ol style="list-style-type: none"> State the periodontal diagnosis Communicate effectively with the patient. Educate the patient about his/her periodontal condition Make recommendations based on clinical findings 	2nd sem. W11	4%
			OSCE Station 2*: designed to assess student competence in behavioral management in regard to "Special Need" Patient Education and OHI (any gender). <ol style="list-style-type: none"> Communicate effectively with the patient. Provide appropriate and full OHI while: <ol style="list-style-type: none"> Naming and demonstrating the brushing technique. Naming the interdental cleaning method and 		4%

			demonstrating its use		
	Integrated (OSPE)	Comprehensive diagnosis and treatment planning for comprehensive clinical practice (CCP)	Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2nd sem. W14	1%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations			(minus) 2%
Total					100 %

RESTORATIVE DENTISTRY DEPARTMENT (CDS)

The department includes the following divisions

1. Biomaterials Division
2. Operative and Esthetic Dentistry Division

DEPARTMENT COMPULSORY COURSES BY DIVISIONS

Division	Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
					Th.	Pr.	Tr.		
Biomaterials	Biomaterials I	CDS 233	حاس 233	2	2	0	0	2	PHYS 110 CHEM 110
	Biomaterials II	CDS 333	حاس 333	2	1	2	0	3	CDS 233
Operative & Esthetic Dentistry	Preclinical-Operative and Esthetic Dentistry	CDS 311	حاس 311	4	2	4	0	6	CDS 233 CDS 333
	Operative and Esthetic Dentistry	CDS 411	حاس 411	4	1	0	3	4	CDS 311
	Operative and Esthetic Dentistry	CDS 511	حاس 511	4	1	0	3	4	CDS 411

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
2 nd	Biomaterials I	CDS	233
3 rd	Biomaterials II	CDS	333
3 rd	Preclinical-Operative and Esthetic Dentistry	CDS	311
4 th	Operative and Esthetic Dentistry	CDS	411
5 th	Operative and Esthetic Dentistry	CDS	511

BIOMATERIALS DIVISION

Course name	Biomaterials I
Course code	CDS 233
Faculty	Dentistry
Department / Division	Restorative Dentistry / Biomaterials
Course type	Required
Academic year (level)	Second Year
Credit hours	2
Contact hours / week	2 Hours/Week
Proposed semester (s)	Second Semester
Prerequisite	PHYS 110, CHEM 110
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Recognize different specialties, scientific terminologies, various clinical situations, and materials used for different treatment modalities.
1.2	Identify dental biomaterials, their limitations, biocompatibility, and biohazards.
2	Skills
2.1	Infer the importance of atomic structure of different classes of materials to their properties.
2.2	Explain the chemical, physical and mechanical properties of different classes of dental materials and their importance in materials' interactions and bonding.
2.3	Justify the concept of material selection and principles of altering properties for certain clinical application.
2.4	Demonstrate effective communication with colleagues and faculty members both orally and in writing
3	Values
3.1	Comply with KAUPD professional code of conduct (Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, and supervisors)
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Building Blocks	Basic Sciences	Introduction to Dentistry and Research Lab Orientation	1	Lecture, Interactive discussion and feedback
		Introduction to Biomaterials science (Biocompatibility/Biohazards)	2	Lecture, Interactive discussion and feedback
		Structure of Matter	2	Lecture, Interactive discussion and feedback
		Physical Properties	2	Lecture, Interactive discussion and feedback
		Surface phenomena and adhesion	2	Lecture, Interactive discussion and feedback
		Mechanical properties (1,2)	4	Lecture, Interactive discussion and feedback

		Introduction to polymers	2	Lecture, Interactive discussion and feedback
		Introduction to metals and alloys	2	Lecture, Interactive discussion and feedback
		Tarnish and corrosion	2	Lecture, Interactive discussion and feedback
		Introduction to ceramics	1	Lecture, Interactive discussion and feedback
		Tutorial Problem solving group activity (to classify different dental materials to biomaterial classes and relate each material to the studied physical and mechanical properties, state different testing methods for each material)	2	Classroom group activity
		Feedback Session	2	Interactive session
		Topic Presentation (3x2)	6	
Total			30	

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: Short Answers	2nd sem. W9	10%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQ	2nd sem. W12	10%
	Assignments	10 Take-Home Assignment Students expected to submit hand-	Assignments on different topics	TBD	2% each Total 20%

		written assignment based on instructor's guidelines			
	In-Class Activity	Problem Solving	Group Learning Activity	TBD	5%
Final Assessments	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQ	2nd sem. W16	45%
	Oral Examination	Knowledge/ Cognitive Skills	Individual Oral Examination	2nd sem. W14	10%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Biomaterials II
Course code	CDS 333
Faculty	Dentistry
Department / Division	Restorative Dentistry / Biomaterials
Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	3 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 233
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Recognize the physical, mechanical, and biological properties of the dental materials, as well as the elements and composition of different dental materials and the effects on their properties
1.2	Identify the indications, contraindications, handling, manipulation, and storage of dental materials
2	Skills
2.1	Categorize the dental materials based on composition and properties correlating their mechanical, physical and biological properties in relation to dental applications including advantages, disadvantages and effect on dental pulp.
2.2	Mix and apply certain dental materials in simulated cavity preparation
2.3	Demonstrate effective communication and presentation skills with instructors and peers
2.4	Outline a search strategy (lecture notes, reading materials or the internet) to solve a clinical or laboratory problem.
2.5	Predict the most appropriate restorative and prosthodontic materials on an evidence-based standards
3	Values
3.1	Demonstrate honesty, integrity and respect with peers, colleagues, supervisors, and comply with the institutional professional code of conduct

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
1st Semester				
The Dentist	Preclinical Operative & Esthetic Dentistry/ Biomaterial	Introduction to Applied Biomaterials Course	1	Lecture
		Dental Amalgam - 1	1	Lecture
		Dental Amalgam - 2	1	Lecture
		Dental Cements - 1	1	Lecture
		Dental Cements - 2	1	Lecture
		Dental Cements - 3	1	Lecture
		Composite - 1	1	Lecture
		Composite - 2	1	Lecture
	Basic Dental Skills / Scientific Inquiry and Research (Level 2)	Problem Solving Session - 1	2	Interactive Session

2 nd Semester				
The Dentist	Preclinical Prosthodontics / Biomaterial	Impression Materials - 1	1	Lecture
		Impression Materials - 2	1	Lecture
		Gypsum	2	Lecture
		Investment	1	Lecture
		Dental ceramics	1	Lecture
	Basic Dental Skills / Scientific Inquiry and Research (Level 2)	Problem Solving Session - 2	2	Interactive Session
	Preclinical Prosthodontics / Biomaterial	Dental Waxes	1	Lecture
	Preclinical Operative & Esthetic Dentistry/ Biomaterial	Integrated session: Amalgam, composite, liner and bases	2	Interactive session
	Preclinical Prosthodontics / Biomaterial	Metals and Alloys in Dentistry - 1	1	Lecture
		Metals and Alloys in Dentistry - 2	1	Lecture
		Polymeric Denture Bases – 1	1	Lecture
		Polymeric Denture Bases - 2	1	Lecture
	Basic Dental Skills / Scientific Inquiry and Research (Level 2)	Problem Solving Session - 3	2	Interactive session
	Lab		60	
	Revision and Feedback		3	
Total			90	

Type	Assessment Activities	Assessment Timing (in Week No)	Percentage of Total Assessment Score
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Continuou s Assessmen ts	Quiz 1	Knowledge/Cog nitive Skills	written assessment : MCQs & Short Answers	1 st sem. W8	5%
	Quiz 2	Knowledge/Cog nitive Skills	written assessment: MCQs & Short Answers	2 nd sem. W7	5%
	Require ment	Material Identification/M anipulation Skills	Material Identification/Manip ulation Booklet	2 nd sem. W13	5%
	In-Class Activity	Problem Solving: Students are divided into groups; each group is given a question booklet. Questions are written in the booklet and shown on power point presentation. Each question is displayed for 4 minutes. After that, the booklets are collected, and group discussion/ feedback is conducted.	Problem solving session I	1 st sem. W12	4%
			Problem solving session II	2 nd sem. W6	3%
			Problem solving session III	2 nd sem. W13	3%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to requirements
Final Assessmen ts	Midyear Exam	Knowledge/Cog nitive Skills	written assessment: MCQs	1 st sem. W15	15%
	Final Year Exam	Knowledge/Cog nitive Skills	written assessment: MCQs	2 nd sem. W15	40%
	Practical Examina tion 1	Dental material manipulation skills	Mix and apply dental materials into simulated cavity preparation	1 st sem. W9	5%
	Practical Examina tion 2	Dental material manipulation skills	Mix and apply dental materials	2 nd sem. W4	5%

	Objective Structured Practical Examination (OSPE)	Material Identification	Slide presentation	2 nd sem. W15	10%
Professionalism	Ethics and Professionalism		Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations		(minus) 2%
Total					100%

OPERATIVE & ESTHETIC DENTISTRY DIVISION

Course name	Preclinical Operative and Esthetic Dentistry
Course code	CDS 311
Faculty	Dentistry
Department / Division	Restorative Dentistry / Operative & Esthetic Dentistry
Course type	Required
Academic year (level)	Third Year
Credit hours	4
Contact hours / week	6 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 233, CDS 333
Course format	Preclinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Recognize various lesions affecting dental hard tissues, specifically caries causes, initiation, dynamics, progress, treatment and prevention
1.2	Recognize the basic principles, techniques, and rationale of operative procedures

1.3	Outline step by step procedure for each cavity preparation and cavity restoration
2	Skills
2.1	Compare the different techniques of manipulation, insertion, setting and finishing of each material used for restoration of teeth and how it relates to other dental disciplines
2.2	Correlate the biomechanical, histopathological, clinical , radiographic and preventive aspects with hard tissue diseases and conditions
2.3	Communicate effectively with peers and supervisors
2.4	Perform the different cavity preparation designs and restorations and dental procedures using the correct dental ergonomics
2.5	Perform removal of old restorations either amalgam or composite resin restorations
2.6	Use a web-based search engine to prepare group presentations.
3	Values
3.1	Comply with KAUFU professional code of conduct demonstrating altruism, honesty, integrity, respect with supervisors and peers
3.2	Demonstrate skills of self-assessment of knowledge in a scientific manner

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Preclinical Operative & Esthetic Dentistry	Introduction to Operative Dentistry	1	Lecture
		Cavity Classification and Nomenclature	1	Lecture
		Instruments 1: Cutting hand instruments	1	Lecture
		Instruments 2: Non-cutting hand instruments	1	Lecture
		Instruments 3: Rotary instruments	1	Lecture
		General principles of cavity preparation 1: Introduction	1	Lecture
		General principles of cavity preparation 2: Outline, retention and resistance forms	1	Lecture
		General principles of cavity preparation 3: Convenience form and final stages of cavity preparation	1	Lecture

		General principles of cavity preparation 4: Additional concepts in tooth preparation	1	Lecture
		Class I amalgam cavity preparation	1	Lecture
		Dental ergonomics	1	Lecture
			1	SSL
		Amalgam 1: Introduction	1	Lecture
		Amalgam 2: Manipulation and application	1	Lecture
		Amalgam 3: Finishing and polishing	1	Lecture
		Amalgam 4: Mercury safety and toxicity	1	Lecture
		Introduction to dental hard tissues trauma, disease and conditions theme	1	Lecture
		Introduction to dental caries	1	Lecture
		Class II amalgam cavity preparation and restoration	1	Lecture
		Matrices and retainers 1: Introduction	1	Lecture
		Matrices and retainers 2: Application	1	Lecture
	Preclinical Operative & Esthetic Dentistry	Field isolation and moisture control 1: Introduction	1	Lecture
		Field isolation and moisture control 2: Rubber Dam application & removal	1	Lecture
The Dentist	Preclinical Operative & Esthetic Dentistry	Composite 1: Introduction	1	Lecture
		Composite 2: Dentin Bonding Agent	1	Lecture
		Composite 3: Light curing in dentistry	1	Lecture
		Composite 4: Finishing and polishing	1	Lecture
		Class I and II composite cavity preparation and restoration	1	Lecture
	Preclinical Operative & Esthetic Dentistry	Class III and IV composite cavity preparation and restoration	1	Lecture
		Class V composite cavity preparation and restoration	1	Lecture

		Conservative approaches in cavity preparation 1: Introduction	1	Lecture
		Conservative approaches in cavity preparation 2: PRR	1	Lecture
		Liners and bases 1: Introduction	1	Lecture
		Liners and bases 2: Glass ionomer	1	Lecture
		Temporary restorations 1: Introduction	1	Lecture
		Temporary restorations 2: Selection	1	Lecture
	Preclinical Operative & Esthetic Dentistry	Integrated session: Amalgam, composite, liner and bases	3	Interactive session
	Basic Dental Skills / Scientific Inquiry and Research (Level 2)	Group Presentation	12	Group Presentation
	lab		120	
	Revision and Feedback	Divided between S1, S2	4	
	tutorial		5	
Total			180	

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	written assessment: MCQS & Short Answers	1 st sem. W8	4%
	Quiz 2	Integrated Assessment with CDS 311 OBCS 377	written assessment: MCQs/short essay addressing "Cariology Module"	1 st sem. W10	2%
	Quiz 3	Knowledge/ Cognitive Skills	written assessment: MCQS & Short Answers	2 nd sem. W6	4%
	Quiz 4	Knowledge/ Cognitive Skills	written assessment: MCQS & Short Answers	TBD	2%
	Requirement	Technical Various	To develop manual dexterity and skills	Throughout the year	20%

		operative dentistry procedures	for operative dentistry procedures, students are expected to finish the requirements listed in the table below Almost 30-50% of the requirements must be performed un-assisted		
	Minimal Procedural Experiences (MPEs)	Simulated-MPE Each procedure will be repeated until performed <u>twice</u> independently, and competently. After which, student will be eligible to enter Competency Exam (SCE)	Two Simulated-MPE for each of the following procedures: Procedure 1: Finish <i>Class II Amalgam</i> Preparation and Restoration with application of base liner and use of a matrix band and wedge, independently and competently. Procedure 2: Finish <i>Class II Composite</i> Preparation and Restoration with use of a matrix band and wedge, independently and competently. Procedure 3: Finish <i>Class III Composite</i> Preparation and Restoration with use of a matrix band and wedge, independently and competently. Procedure 4: Finish <i>Class V Composite</i> Restoration independently and competently.	Throughout the year	10%
	Presentation and	Oral Presentation	Students will be divided into groups to prepare a "given	TBD	3%

	Teamwork	Skills and Teamwork	topic". Individual and group performance will be evaluated using a given rubric.		
	In-Class Activity	Case-Based Learning (CBL) Activity to correlate biomechanical, histopathological, clinical including the radiographic and preventive aspects with hard tissues diseases and conditions in an integrated fashion.	<p>Topic: Dental Hard Tissues Trauma, Diseases and Conditions</p> <p>Group Activity</p> <p>Students receive the case and the questions were given to students 2 weeks before the scheduled session.</p> <p>Attendance is mandatory based on rules and regulations.</p>		0%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	written assessment: MCQs, Short Answers and Structured Essay	1st Sem W11	15%
	Final Year Exam	Knowledge/ Cognitive Skills	written assessment: MCQs, Short Answers and Structured Essay	2nd Sem W12	20%
	Simulated Competency Exam (SCE)	Simulated Competency Exam*	<p><i>SCE for Procedure 1*:</i> Finish Class II Amalgam Preparation and Restoration with application of base liner and use of a matrix band and wedge, independently and competently.</p> <p><i>SCE for Procedure 2*:</i> Finish Class II Composite Preparation and Restoration with use of a matrix band and wedge,</p>	Throughout the year	10%

			independently and competently. <i>SCE for Procedure 3*: Finish Class III Composite Preparation, independently and competently.</i> <i>SCE for Procedure 4*: Finish Class V Composite Restoration independently and competently.</i>		
	Objective Structured Practical Examination (OSPE)	Clinical application of laboratory basic knowledge	Computer-based clinical scenarios: Short answers	2ns Sem W12	10%
Behavior	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Operative & Esthetic Dentistry
Course code	CDS 411
Faculty	Dentistry
Department / Division	Restorative Dentistry / Operative & Esthetic Dentistry
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 311
Course format	Clinical course
Course Learning Outcomes (CLOs)	

1	Knowledge and understanding
1.1	Outline the causes, initiation, dynamics and progress of the carious lesions, its treatment and prevention
1.2	Describe the philosophy of adhesion and adhesive steps throughout the restorative procedures
1.3	Discuss different direct restorative materials: properties, indications, application techniques to apply this knowledge to different clinical situations
2	Skills
2.1	Critically analyze gathered data from clinical examination, radiographs, diet analysis and caries risk assessments in order to Differentiate between low and high-risk patients to establish correct diagnosis, treatment plan and prognosis accordingly
2.2	Perform diet analysis & caries risk assessment,
2.3	Examine the clinical status of the oral cavity regarding, oral hygiene, carious, non-carious lesions and existing restorations using dental instruments, radiographs and other diagnostic tools
2.4	Perform the proper application of diverse procedures of field isolation. and treatment of dental caries by designing and modifying the cavity according to the lesion progression and the restorative material properties, to a biologically and mechanically acceptable level without adverse effects; as well as delivery of maintenance plan.
2.5	Discuss the diagnoses, treatment plan, prognosis and recall with the patient and refer cases beyond the scope of the general dentist
2.6	Communicate and collaborate effectively and share information, both verbally & in writing, with peers, colleagues, and supervisors maintaining professional team work
2.7	Use the web to search for relevant information
3	Values
3.1	Demonstrate ethical behavior, professionalism, and compliance with the institutional professional code of conduct
3.2	Perform self-assessment with discussion and accept constructive criticism.
3.3	Document accurately all dental and medical encounters in a timely and accessible manner using the proper health record system (R4 system) applying health and safety aspects, particularly cross infection procedures

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
	DxTP for PCC	Introduction to the Course	1	Lecture

The Dentist		Charting Teeth and Existing Restoration		
		Caries Diagnosis (ICDAS)	1	Lecture
		Caries Diagnosis, Caries Risk Assessment, Caries Management Strategies and Behavior Modification and Preventing Musculoskeletal disorders during dental practice	2	Interactive Lecture and Session
		Caries Diagnosis, Caries Risk Assessment, Caries Management Strategies and Behavior Modification, and Cavity Preparations "Practical Station-Based Session"	4	Clinical Simulation and Practice
	PCC - DxTP Modifiers and Additional Skills	Biological Aspects of Caries: Host Related Factors	1	Lecture
		Biological Aspects of Caries: Dietary and Bacterial Factors	1	Lecture
	PCC - Periodontology	Primary Care Dentistry (Collaborative with OBCS 445)	1	Lecture
	PCC - Operative & Esthetic Dentistry	Isolation of Operative Field: New Techniques	1	Lecture
		Introduction to Caries Management	1	Lecture
		Introduction to Dental Adhesion	1	Lecture
The Dentist		Bonding to Enamel and Dentin	1	Lecture
	PCC - Operative & Esthetic Dentistry	Adhesive System	1	Lecture
		Direct Posterior Composite Restorations: Conservative Cavities and Class I	1	Lecture
		Direct Posterior Composite Restorations (Class II and Clinical Tips)	1	Lecture
The Patient	Behavior Sciences	Management of Carious Dentin	1	Lecture
		Social Determinants of Health, Illness, Behavior and Health Promotion	2	Interactive session
The Dentist	PCC - Operative & Esthetic Dentistry	Clinical Application of Glass Ionomer	1	Lecture

	PCC – Behavior Management	Pain, Anxiety and Fear	2	Interactive session
	PCC - Operative & Esthetic Dentistry	Direct Anterior Composite Restorations (Conservative Cavities)	1	Lecture
	PCC – Behavior Management	Stress in Dentistry	2	Interactive session
	PCC - Operative & Esthetic Dentistry	Direct Anterior Composite Restorations (Prerequisites and Clinical Tips)	1	Lecture
	PCC - DxTP Modifiers and Additional Skills	CBL Case 1 - The Pakistani Wife	2	Interactive session
	PCC - Behavioral Management/Patient Education	Nutrition - Diet Analysis, Counselling and Behavioral Management (Collaborative with OBCS 411)	2	Theory & Role Play
	PCC- Preventive Dentistry	Preventive and Therapeutic Agents for Dental Caries	1	Lecture
	Behavior Management	Behavior Management	2	Interactive session
	PCC – Maintenance and Assessment of Treatment Outcome	Biological Influences of Cavity Preparation	1	Lecture
	PCC - DxTP Modifiers and Additional Skills	CBL Case 2 - The Widow	2	Interactive session
	PCC - Operative & Esthetic Dentistry	Biological Influences of Restorative Material	1	Lecture
	Behavior Management	Behavior Change	2	Interactive session
	PCC - Operative & Esthetic Dentistry	Gingival Tissue Damage during Restorative Procedures	1	Lecture
	PCC - DxTP Modifiers and Additional Skills	CBL Case 3 – The Stock Company CEO	2	Interactive session
The Dentist	PCC - Operative & Esthetic Dentistry	Management of Gingival Tissue Damage During Restorative Procedures	1	Lecture
		CBL Case 4 - The Taxi Driver	2	Interactive session

	PCC - DxTP Modifiers and Additional Skills	CBL Case 5 - The Gas Station Worker		1	Mock OSPE
	PCC - Operative & Esthetic Dentistry	PCC Clinical session		70	Clinical session
Total				120	
Assessment Title	Assessment Description			Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Knowledge/Cognitive Skills	Paper-Based: MCQs & Short Essays	1 st sem. W10	5%
	Quiz 2	Knowledge/Cognitive Skills	Paper-Based: MCQs & Short Essays	2 nd sem. W7	5%
	Pop-Quiz 1	Knowledge/Cognitive Skills	Paper-Based: Short Answers To test student knowledge and ability: 1. To assess the activity of carious lesions based on clinical findings 2. To identify different caries risk factors	TBD	0.5% (the best of the two pop quizzes, 1&2, will be counted)
	Pop-Quiz 2	Knowledge/Cognitive Skills	Paper-Based: Short Answers To test student knowledge and ability: 1. To determine the cariogenic features of biofilm bacteria 2. To determine the cariogenicity of different carbohydrates 3. To recall the histopathology		

			gical features of caries dentin layers		
	Pop-Quiz 3	Knowledge/Cognitive Skills	Paper-Based: Short Answers To test student knowledge and ability: 1. To explain the role of smear layer 2. To determine the advantages of glass-ionomer cements	TBD	0.5% (the best of the two pop quizzes, 1&2, will be counted)
	Pop-Quiz 4	Knowledge/Cognitive Skills	Paper-Based: Short Answers To test student knowledge and ability: 1. To identify different factors that influence pulp response to restorative procedures 2. To determine the preventive measures during cavity preparation		
	Clinical Requirements	Mandatory clinical various operative dentistry procedures While being marked, student will receive ample assistance and feedback on his/her clinical skills, practice management skills and code	To develop clinical experience in operative dentistry procedures, students are expected to finish the requirements listed in the table below	Throughout the year	8%

		of professional conduct.			
		Extra Requirements "Towards Comprehensive Care"	Operative procedures other than the ones listed as requirements and contribute to the total comprehensive care of your patients. While being marked, you can still have ample assistance and feedback on your clinical skills, practice management skills and code of professional conduct.	Throughout the year	1%
	Minimal Procedural Experiences (MPEs)	Clinical-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Competency Exam (CCE)	Clinical-MPE for each of the following procedures: Procedure 1: (1) Caries diagnosis (OSPE) Procedure 2: (1) Caries risk assessment (OSCE OBCS 411) Procedure 3: (3) Class I Composite Preparation and Restoration. Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct. Procedure 4:	Throughout the year	23%

			<p>(3) Class II Composite Preparation and Restoration. Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.</p> <p>Procedure 4: (2) Class III Composite Preparation and Restoration. Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.</p>		
	SDL Assignment and CBL Activity	<p>Case-Based Learning (CBL): Comprehensive diagnosis and treatment planning for primary care clinical (PCC)</p> <p>Individual SDL Take-home Assignment and In-class Group CBL Discussions</p> <p>Case 1: The Gas Station Worker Case 2: The Widow Case 3: The Stock Company CEO</p>	<p><u>SDL Assignment:</u> Student will receive discipline-related question about the case to be discussed and are expected to submit their assignment via “blackboard” one week before the CBL session.</p> <p>Assignment will be checked for plagiarism based on the academic code of conduct.</p> <p><u>CBL Activity:</u></p>	Based on WTT	4% (2% each)

		<p>Case 4: The Taxi Driver</p>	<p>Students are divided into small groups (10-15), each with an instructor for student evaluation and feedback. Student will discuss `an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions. Student work in groups to answer the questions.</p> <p>During the session, students will be assessed on:</p> <ol style="list-style-type: none">1. Their ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.2. Their ability to present a clinical case to peers. <p>The assessment parameters for the CDS 411 course is as follows:</p> <p>Case 1: The Gas Station Worker</p> <ol style="list-style-type: none">1. To correlate radiographic findings to		
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			<p>clinical findings to classify caries lesions</p> <p>2. To describe the caries risk assessment factors</p> <p>Case 2: The Widow</p> <p>1. To correlate radiographic findings to clinical findings to classify caries lesions</p> <p>2. To identify the patient risk and structure personalized treatment plan for caries control</p> <p>3. To assess knowledge regarding the causes and treatment of esthetic problems</p> <p>Case 3: The Stock Company CEO</p> <p>1. To correlate radiographic findings to clinical findings to classify caries lesions</p> <p>2. To describe the defects detected in hard tooth structure</p> <p>3. To recognize the causes of cervical non-carious lesions</p>		
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			<p>4. To identify the cause of teeth sensitivity</p> <p>Case 4: The Taxi Driver</p> <p>1. To use given information in the case scenario to identify the patient caries risk</p> <p>2. To perform a personalized plan for caries management</p>		
	Electronic Student Logbook (ESL)	Keeping records of own experience	<p>CDS 411 Booklet: Throughout clinical experience students are expected to demonstrate ability to:</p> <p>1. Apply infection control measures</p> <p>2. Demonstrate knowledge of the behavioral, clinical and technical procedures involved in the treatment of patients requiring restorative dentistry with the full consent of patients.</p> <p>3. Perform caries diagnosis correlating findings from clinical and radiographic</p>	Throughout the year	Affect marks assigned to clinical requirements and MPEs

			<p>examinations</p> <ol style="list-style-type: none"> Perform all appropriate examinations to assess caries risk Apply rubber dam Demonstrate knowledge of materials' science and technology in relation to restorative dentistry Clinical/technical skills to perform different restorative procedures. Demonstrate good personal, teamwork, IT and operational skills 		
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	1 st sem. W16	10%
	Final Year Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	2 nd sem. W16	17%
	Clinical Competency Exam (CCE)	Clinical Competency Exam*	CCE-1 for Procedure*: Class I Composite Preparation and Restoration.	Throughout the year	11%
		Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.	CCE-2 for Procedure*: Class II Composite Preparation and Restoration.		10%

	Objective Structured Practical Examination (OSPE)	Clinical knowledge and problem-solving skills in operative dentistry (Caries diagnosis and caries risk assessment components of the exam are pass-fail assessment of competence)	OSPE is designed to assess students ability to: 1. Classify caries according to ICDAS 2* 2. Describe special considerations related to rubber dam application 3. Differentiate between different cavity designs for posterior composite restoration. 4. Determine the steps of manipulation of posterior composite restoration 5. Describe the influence of irritation on dento-pupal organ 6. Recognize the techniques of gingival displacement	2 nd sem. W11	2%
	Objective Structured Clinical Examination (OSCE)	Test clinical and procedural skills	OSCE station are designed to assess student Procedural skills for: 1. Caries Diagnoses 2. Matrix band application		3%
		Behavioral Management	OSCE Station 1*: Designed to assess student ability to: 1. Obtain diet analysis		Mark assigned in OBCS 411
		Integrated with OBCS 411			

			2. Give brief diet counseling		
	Integrated (OSPE)	Comprehensive diagnosis and treatment planning for primary care clinical (PCC)	Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2 nd sem. W14	Grade is assigned to OBCS 468
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Operative & Esthetic Dentistry
Course code	CDS 511
Faculty	Dentistry
Department / Division	Restorative Dentistry / Operative & Esthetic Dentistry
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 411
Course format	Clinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding

1.1	Recall important applied biomedical sciences related to dental hard tissues, disease transmission, caries, restorative and prosthodontic management, as well as biomechanical concepts pertaining to teeth restoration
1.2	Recognize the potential and limitations of dental technological procedures and the handling of dental materials in restoring the dentition.
2	Skills
2.1	Examine salivary function, patient risk for oral diseases or injuries, including, diet analysis and tobacco use; patient risk for caries to implement caries prevention strategies, as well as the location, extent and degree of activity of dental caries, tooth surface loss, and other insults to dental hard tissues
2.2	Evaluate patient's aesthetic needs to formulate a comprehensive diagnosis, and prioritized and sequenced treatment plan in operative dentistry and/or referral plan if needed.
2.3	Perform proper diagnosis and management, if possible, of pain in operative dentistry
2.4	Communicate effectively professionally, and ethically with patients, instructors, peers and clinical staff.
2.5	Demonstrate the ability to educate patients concerning the etiology, risks, and prevention of oral disease and injuries to encourage them to assume responsibility for their oral health.
2.6	Restore using evidence-based therapeutic procedures carious tooth tissue and/or tooth defects, breakdown of existing restorations and esthetic problems using techniques that maintain pulp vitality, conserve tooth structure, and restore the tooth to form, function and aesthetics with appropriate materials, preventing hard tissue disease and dental emergencies, and promoting soft tissue health
3	Values
3.1	Demonstrate respect to patients, peers, colleagues and supervisors while complying with the professional code of conduct and appraising the role of the general dental practitioner
3.2	Maintain safe dental practice by producing patients' records on electronic health records system (R4 system) and performing necessary steps to identify both the patient and the intended site for a procedure before undertaking irreversible treatment.
3.3	Develop self-assessment, accepting constructive criticism, understanding his/her own learning needs and seeking continuous professional development.

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	CCP - Behavioral Management	Application of Behavioral Science Concepts in Clinical Dentistry for Adults: Access to Care Effect on Treatment Outcome	1	Lecture with interactive discussion

	DxTP for CCP - Adult, Geriatric and Special Need	Assessment of Existing Restorations	1	Lecture with interactive discussion
		Root Caries: Diagnosis and Management	1	Lecture with interactive discussion
		Tooth Surface Loss 1: Diagnosis and Etiology of Non-Carious Lesions	1	Lecture with interactive discussion
		Vital Pulp Therapy 1: Diagnosis of Deep Carious Lesions	1	Lecture with interactive discussion
		Master Diagnosis and Treatment Planning Museum	2	Interactive Session OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534
	DxTP for CCP - Adult, Geriatric and Special Need	Occlusal Stability in Operative Dentistry	1	Lecture with interactive discussion
		Special Considerations in Dental Occlusion (Host: OMR 534)	Counted in OMR 534	Integrated CBL with OMR 534
	CCP - Preventive Dentistry	Oral Healthcare Products for Caries Prevention and Management	1	Lecture with interactive discussion
	CCP - Operative & Esthetic Dentistry	Tooth Surface Loss 2: Management Options for Non-Carious Lesions (Non-Carious Cervical Lesions)	1	Lecture with interactive discussion
		Vital Pulp Therapy 2: Management of Deep Carious Lesions	1	Lecture with interactive discussion
		Selection of Restorative Materials - 1: Factors Affecting Material Choice	1	Lecture EBD Application
		Selection of Restorative Materials - 2: Clinical Considerations	1	Lecture EBD Application
		Clinical Application of Efficient Bonding in Restorative Dentistry	1	Lecture with interactive discussion

		Light Curing Technology and Mode of Cure	1	Lecture with interactive discussion
	CCP - Dental Pain, Urgencies and Emergencies Module	Post-Operative Hypersensitivity	2	Lecture with interactive discussion
	CCP - Assessment and Management of Mutilated Teeth Module	Restoration of Mutilated Teeth	1	Lecture with interactive discussion
		Decision Making in Assessment and Management of Mutilated Teeth (Host: OMR 534)	Counted in OMR 534	Integrated CBL with OMR 534, OBCS 545
	CCP - Esthetics in Dentistry	Introduction to the Module	1	Lecture with interactive discussion
		Tooth Discoloration and Conservative Management Approaches		
		Smile Analysis and Esthetic Designing "In the Zone"	2	Lecture with interactive discussion
		A Guide to Success in Esthetic Dentistry	1	Lecture with interactive discussion
		Direct Esthetic Restorations in Operative Dentistry	1	Lecture with interactive discussion
		Periodontal Plastic Surgeries	Counted in OBCS 545	Lecture with interactive discussion
		Esthetic Considerations in Fixed Prosthodontics	Counted in OMR 534	Lecture with interactive discussion
		All Ceramic Restorations-An Approach to Material Selection	Counted in OMR 534	Lecture with interactive discussion
		Non-Vital Bleaching of Discolored Endodontically Treated Teeth	Counted in CDS 522	Lecture with interactive discussion
		Laminate Veneers	Counted in OMR 534	Lecture with interactive discussion

		Resin-bonded Restorations	Counted in OMR 534	Lecture with interactive discussion
		Esthetics in Dentistry	2	Integrated CBL with OMR 534, CDS 522, OBCS 545
		Indirect Tooth-Colored Restorations Indications and Limitations	1	Lecture with interactive discussion
	CP - Maintenance and Assessment of Treatment Outcome	Influence of Oral Environmental Factors on Different Restorative Materials	1	Lecture with interactive discussion
		Failures of Different Restorations	1	Lecture with interactive discussion
		Maintenance and Assessment of Treatment Outcomes	Counted in OBCS 545	Integrated CBL with OBCS 545, OMR 534, OMR 521, OMR 523
	CCP - Operative & Esthetic Dentistry	Clinical Sessions (1 st & 2 nd Semesters) Sem1: 3 hours x 15 weeks Sem 2: 3 hours x 15 weeks	90	Clinical sessions
Humanism	Feedback & Conflict Resolution	Revision and Feedback	2	Tutorial and interactive discussion
Total				120 hours

Type	Assessment Activities			Assessment Timing (In week No)
Continuous Assessment	Quiz 1	Knowledge/ Cognitive Skills	Written Assessment: MCQs	1 st sem. W 9
	Assignment	Knowledge/ Cognitive Skills	Written Assignment	2nd sem.
	Quiz 2 (Integrated Quiz)	Knowledge/ Cognitive Skills	Written Assessment: MCQs. Concept assessed in this course is "Esthetics in Dentistry"	2nd sem. W5

			<p>Quiz follows the Integrated CBL Session. Courses involved:</p> <ul style="list-style-type: none"> - OBCS 545 - CDS 511 - OMR 523 - OMR 534 	
	Clinical Requirements	<p>Mandatory clinical various operative dentistry procedures</p> <p>While being marked, student will receive ample assistance and feedback on his/her clinical skills, practice management skills and code of professional conduct.</p>	To develop clinical experience in operative dentistry procedures, students are expected to finish the requirements listed in the table below	Throughout the year
		Extra Requirements "Towards Comprehensive Care"	<p>Operative procedures other than the ones listed as requirements and contribute to the total comprehensive care of your patients.</p> <p>While being marked, you can still have ample assistance and feedback on your clinical skills, practice management skills and code of professional conduct. (According to incentive points table)</p>	Throughout the year
	Minimal Procedural Experiences (MPes)	<p>Clinical-MPE</p> <p>Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Competency Exam (CCE)</p>	<p>Clinical-MPE for each of the following procedures:</p> <p>Procedure 1: (X4) Class III Composite Preparation and Restoration.</p>	Throughout the year

			<p>Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.</p> <p>Procedure 2: (X 5) Class II Composite Preparation and Restoration. Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.</p>	
	In-Class Activity	Integrated Case-Based Learning Session of Integrated Modules	<p>CBL Activity: Students are divided into small groups. Student will discuss an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions relevant to the module.</p> <p>Diagnosis and Treatment Planning for CCP Module</p> <p>Occlusion Module</p> <p>Esthetics in Dentistry Module</p> <p>Dental Urgencies and Emergencies Module</p>	Based on WTT

			Assessment of Mutilated Teeth Module	
			Assessment of Treatment Outcome Module	
	Comprehensive Care Practice (CCP) Presentation	Case Presentation	Each student will present a CCP case Marks assigned equally to all involved courses (1% each course) - OBCS 556 - OBCS 545 - CDS 511 - CDS 522 - OMR 523 - OMR 534	Based on WTT
	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	1st sem. W16
Final Exams	Final Year Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs, Short Answers and Structured Essay	2nd sem. W
	Clinical Competency Exam (CCE)	Clinical Competency Exam* Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.	CCE-1 for Procedure*: Class III Composite Preparation and Restoration. CCE-2 for Procedure*: Class II Composite Preparation and Restoration.	One CCE exam in the first semester and one in the second semester.
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and problem-solving skills in operative dentistry	Written Assessment: Structured Essay	
	Objective Structured Clinical Examination (OSCE)	Test clinical and procedural skills	OSCE Station 1*: Selective etching and bonding Technique	2nd sem. W
		Outcome Assessment	OSCE Station 2*: Vital pulp therapy (direct pulp capping); material and technique	

			selection, handling, and application	
	Mock Integrated (OSPE)	Comprehensive diagnosis and treatment planning for comprehensive practice (CCP)	Mock OSPE to train students and provide feedback	2nd sem. W
	Integrated (OSPE)		Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment planning taking into consideration the social and behavioral component.	2nd sem. W
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations		
Total				100%

ENDODONTIC DEPARTMENT

(CDS)

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Preclinical Endodontics	CDS 422	422 حاس	4	1	0	3	4	MICD 301
Endodontics	CDS 522	522 حاس	4	1	0	3	4	CDS 422

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
4 th	Preclinical Endodontics	CDS	422
5 th	Endodontics	CDS	522

Course name	Preclinical Endodontics
Course code	CDS 422
Faculty	Dentistry
Department / Division	Endodontics
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4

Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	MICD 301
Course format	Preclinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Outline the anatomy, physiology of pulpal and periapical area related to endodontic practice
1.2	Identify the basic principles, different design, steps, management and iatrogenic errors of access cavity preparation
1.3	Identify the types, uses and limitation of endodontic materials and instruments
1.4	Recognize the rationale, different techniques and steps for 3D root canals cleaning, shaping and obturation
1.5	Recognize the basic evidence-based concepts, domain, and phases in RCT as well as scope, techniques, and criteria for successful RCT
2	Skills
2.1	Distinguish healthy and diseased pulp and periapical tissues, correlating the dental pulp anatomy and physiology to endodontic treatment starting from access preparation to canal system obturation
2.2	Compare between different techniques of 3D canal cleaning, shaping and obturation
2.3	Recognize the different components of a standard endodontic kit, materials and instruments (hand and rotary) used in endodontic treatment
2.4	Correlate the pathology and defense mechanism of dental pulpal and periapical tissue to the clinical and radiographic features in endodontic practice, with referral to the radiographic procedural errors and their effect on successful endodontic procedures
2.5	Evaluate the root canal treatment outcomes performed in the lab
2.6	Perform access cavity preparation, working length determination radiographically and electronically, cleaning & shaping procedures using hand and rotary instruments as well as obturation procedures using cold compaction technique for upper and lower natural and plastic teeth mounted in Modu-Pro Segments
3	Values
3.1	Demonstrate ethics, professionalism with supervisors and colleagues
3.2	Carry out self-assessment for the steps of endodontic procedures

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Preclinical Endodontics	Endodontics: Scope, Rationale, Indications, and Contraindications	2	Lecture
		Root Canal Morphology of Anterior Teeth	2	Lecture
		Access Cavity Preparation of Anterior Teeth	2	Lecture
		Root Canal Morphology of Posterior Teeth	2	Lecture
		Access Cavity Preparation of Posterior Teeth	3	Lecture
		Topic 1: Instrument Identification and Tray Setting Topic 2: Teeth Selection and Mounting Topic 3: Preoperative Radiograph	3	Mini Lecture & Practical Demo
		Working Length Determination (Part I)	3	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Demo & Video Presentation
		Working Length Determination (Part II)	3	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Session
		Intracanal Irrigation	2	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Session
Humanism	Feedback *& Conflict Resolution	Revision and feedback	2	Tutorial
The Dentist	Preclinical Endodontics	Intracanal Medication	2	Lecture
		Coronal Flaring & Working Length Determination	3	Demo & Video Presentation

		Intracanal Endodontic Instruments: Definition, Materials & Manufacturing	2	Lecture
		Instrumentation: Hand Instrumentation	4	Demo & Video Presentation
		Classification of Intracanal Endodontic Instruments	2	Lecture
		Coronal Flaring & Working Length Determination (2 session)	3	Practical Session
		Components of Rotary Files and Rotary Instruments	2	Lecture
		Obturation (Lateral Compaction)	3	Demo & Video Presentation
		Biological and Mechanical Objectives of Cleaning and Shaping	2	Lecture
		Access Cavity Preparation of Premolars	3	Demo & Video Presentation
		Step Back Technique and Coronal Flaring	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Crown Down and Balanced Force Technique	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Engine-Driven Continuous Rotation Vs. Reciprocation, Sonic and Ultrasonic	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Rationales and Objectives of Root Canal Obturation	2	Lecture
		Rotary Instrumentation	3	Demo & Video Presentation
		Materials and Instruments	2	Lecture

		Access Cavity Preparation of Molars	3	Demo & Video Presentation
		Cold compaction Technique and its Variations	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
		Warm Vertical Compaction Technique	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
		Evaluation of Root Canal Obturation	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
Humanism	Feedback & Resolution	Revision and feedback	6	Interactive session
The Dentist	Basic Dental Skills EBD-Level 1	Evidence-Based Dentistry and Application in Endodontics: Poster Preparation	3	Interactive Session
		Evidence-Based Dentistry and Application in Endodontics: Poster Presentation	3	Poster Presentation
	Preclinical Endodontics	MPEs Submission	3	Practical
		Competency Practical Exam: CE	3	Practical Exam
		Competency Practical Exam: CE	3	Practical Exam
Total				120

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessment	Quiz 1	Knowledge /Cognitive Skills	Paper-Based: MCQs	1 st sem. W8	2.5%
	Quiz 2	Knowledge /Cognitive Skills	Paper-Based: MCQs	2 nd sem. W10	2.5%

	Practical Requirements	Mandatory simulated endodontic procedures	To develop technical and skills in endodontics, students are expected to finish the requirements listed in the table below While being marked, student will receive ample assistance and feedback on their performance	Throughout the year	6%
	Minimal Procedural Experiences (MPEs)	Simulated Clinical - MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Simulated Competency Exam (SCE)	Simulated Clinical -MPE for each of the following procedures: Procedure 1: (X3) RCT for Anterior Teeth - 2 artificial & 1 natural teeth Procedure 2: (X 2) RCT for Premolar Teeth - 1 artificial & 1 natural teeth Procedure 3: (X 2) RCT for Molar Teeth - 1 artificial & 1 natural teeth	Throughout the year	14%
	SDL Assignment	Evidence-Based Dentistry (EBD) Application * Knowledge part will be covered in OBCS 411. This is a pass/fail assignment.	Students will be divided into 10-11 groups and will work on one of the topics listed below. Student should be able to: 1. List different approaches or	Based on WTT	2.5%

		<p>If you got it right from the first time you will be awarded the full mark. If you didn't you will be denied the mark and you will repeat the assignment until you get it right.</p>	<p>modalities</p> <ol style="list-style-type: none"> 2. Formulate a clinical question 3. Answer a clinical question using "PICO" 4. Identify and name best available evidence <p>Topics List:</p> <ul style="list-style-type: none"> • Burs, drills • hand files types rotary files (with cross section shape when indicated) • Apex locator • Rotary motors • Heat source systems, thermoplasticizing GP systems • Paper points, standardized GP 		
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			<div>point s, non- stand ardiz ed GP, <ul style="list-style-type: none">• Irriga tion soluti ons, intrac anal medi came nts• Irriga tion needl es and syste ms• Mirro r, explo rer, plugg ers, ruler, endo block, excav ator• Rubb er dam kits and differ ent clam ps• Settin g up the worki ng space (tray organ izatio n)</div>		
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	Presentation	EBD Application - Poster Presentation Skills	SPP: Group Work Students will present their EBD project using a pre-prepared poster template. Presenter will be selected randomly from the group Mark granted will be assigned to the whole group	TBD	2.5%
	Student Logbook	Keeping records of own experience	Throughout the year	Affect marks assigned to clinical requirements and MPEs	Student Logbook
Final Assessment	Midyear Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	10%
	Final Year Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	2 nd sem. W16	35%
	Simulated Competency Exam (SCE)	Simulated Competency Exam*	SCE for Procedure*: RCT for Anterior Teeth	Throughout the year	10%
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and outcome of RCT	OSPE will be Slide presentation and MCQs to assess students' on: 1. Instrument identification and uses	2 nd sem. W16	5%

			<ol style="list-style-type: none"> 2. RCT techniques 3. Material indications, advantages and disadvantages 4. RCT outcome and quality 5. Endodontics diagnosis 		
	Objective Structured Clinical Examination (OSCE)	Test instrument identification, arrangement, and quality of RCT*	<p>OSCE Station 1*: Designed to assess student ability to:</p> <ol style="list-style-type: none"> 1. Identify RCT instruments 2. Arrange instruments logically based on stages of RCT 	2nd sem W11	5%
			<p>OSCE Station 2*: Designed to assess student ability to:</p> <ol style="list-style-type: none"> 1. Assess the quality 		5%

			y of RCT and identi fy error s in proce dures		
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Endodontics
Course code	CDS 522
Faculty	Dentistry
Department / Division	Endodontics
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 422
Course format	Clinical course

Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Outline the anatomy, physiology of pulpal and periapical area related to endodontic practice
1.2	Identify the basic principles, different design, steps, management and iatrogenic errors of access cavity preparation
1.3	Identify the types, uses and limitation of endodontic materials and instruments
1.4	Recognize the rationale, different techniques and steps for 3D root canals cleaning, shaping and obturation

1.5	Recognize the basic evidence-based concepts, domain, and phases in RCT as well as scope, techniques, and criteria for successful RCT
2	Skills
2.1	Distinguish healthy and diseased pulp and periapical tissues, correlating the dental pulp anatomy and physiology to endodontic treatment starting from access preparation to canal system obturation
2.2	Compare between different techniques of 3D canal cleaning, shaping and obturation
2.3	Recognize the different components of a standard endodontic kit, materials and instruments (hand and rotary) used in endodontic treatment
2.4	Correlate the pathology and defense mechanism of dental pulpal and periapical tissue to the clinical and radiographic features in endodontic practice, with referral to the radiographic procedural errors and their effect on successful endodontic procedures
2.5	Evaluate the root canal treatment outcomes performed in the lab
2.6	Perform access cavity preparation, working length determination radiographically and electronically, cleaning & shaping procedures using hand and rotary instruments as well as obturation procedures using cold compaction technique for upper and lower natural and plastic teeth mounted in Modu-Pro Segments
3	Values
3.1	Demonstrate ethics, professionalism with supervisors and colleagues
3.2	Carry out self-assessment for the steps of endodontic procedures

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Preclinical Endodontics	Endodontics: Scope, Rationale, Indications, and Contraindications	2	Lecture
		Root Canal Morphology of Anterior Teeth	2	Lecture
		Access Cavity Preparation of Anterior Teeth	2	Lecture
		Root Canal Morphology of Posterior Teeth	2	Lecture
		Access Cavity Preparation of Posterior Teeth	3	Lecture
		Topic 1: Instrument Identification and Tray Setting	3	Mini Lecture & Practical Demo

		Topic 2: Teeth Selection and Mounting Topic 3: Preoperative Radiograph		
		Working Length Determination (Part I)	3	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Demo & Video Presentation
		Working Length Determination (Part II)	3	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Session
		Intracanal Irrigation	2	Lecture
		Access Cavity Preparation of Anterior Teeth	3	Practical Session
Humanism	Feedback *& Conflict Resolution	Revision and feedback	2	Tutorial
The Dentist	Preclinical Endodontics	Intracanal Medication	2	Lecture
		Coronal Flaring & Working Length Determination	3	Demo & Video Presentation
		Intracanal Endodontic Instruments: Definition, Materials & Manufacturing	2	Lecture
		Instrumentation: Hand Instrumentation	4	Demo & Video Presentation
		Classification of Intracanal Endodontic Instruments	2	Lecture
		Coronal Flaring & Working Length Determination (2 session)	3	Practical Session
		Components of Rotary Files and Rotary Instruments	2	Lecture
		Obturation (Lateral Compaction)	3	Demo & Video Presentation
		Biological and Mechanical Objectives of Cleaning and Shaping	2	Lecture

		Access Cavity Preparation of Premolars	3	Demo & Video Presentation
		Step Back Technique and Coronal Flaring	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Crown Down and Balanced Force Technique	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Engine-Driven Continuous Rotation Vs. Reciprocation, Sonic and Ultrasonic	2	Lecture
		Access Cavity Preparation of Premolars	3	Practical Session
		Rationales and Objectives of Root Canal Obturation	2	Lecture
		Rotary Instrumentation	3	Demo & Video Presentation
		Materials and Instruments	2	Lecture
		Access Cavity Preparation of Molars	3	Demo & Video Presentation
		Cold compaction Technique and its Variations	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
		Warm Vertical Compaction Technique	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
		Evaluation of Root Canal Obturation	2	Lecture
		Access Cavity Preparation of Molars	3	Practical Session
Humanism	Feedback & Resolution	Revision and feedback	6	Interactive session

The Dentist	Basic Dental Skills EBD-Level 1	Evidence-Based Dentistry and Application in Endodontics: Poster Preparation	3	Interactive Session
		Evidence-Based Dentistry and Application in Endodontics: Poster Presentation	3	Poster Presentation
	Preclinical Endodontics	MPEs Submission	3	Practical
		Competency Practical Exam: CE	3	Practical Exam
		Competency Practical Exam: CE	3	Practical Exam
	Total			120

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessment	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W8	2.5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem. W10	2.5%
	Practical Requirements	Mandatory simulated endodontic procedures	To develop technical and skills in endodontics, students are expected to finish the requirements listed in the table below While being marked, student will receive ample assistance and feedback on their performance	Throughout the year	6%
	Minimal Procedural Experiences (MPEs)	Simulated Clinical -MPE Each procedure will be repeated	Simulated Clinical - MPE for each of the following procedures: Procedure 1:	Throughout the year	14%

		<p>until performed independently, and competently. After which, student will be eligible to enter Simulated Competency Exam (SCE)</p>	<p>(X3) RCT for Anterior Teeth - 2 artificial & 1 natural teeth</p> <p>Procedure 2: (X 2) RCT for Premolar Teeth - 1 artificial & 1 natural teeth</p> <p>Procedure 3: (X 2) RCT for Molar Teeth - 1 artificial & 1 natural teeth</p>		
	SDL Assignment	<p>Evidence-Based Dentistry (EBD) Application*</p> <p>Knowledge part will be covered in OBCS 411.</p> <p>This is a pass/fail assignment.</p> <p>If you got it right from the first time you will be awarded the full mark. If you didn't you will be denied the mark and you will repeat the assignment until you get it right.</p>	<p>Students will be divided into 10-11 groups and will work on one of the topics listed below.</p> <p>Student should be able to:</p> <ol style="list-style-type: none"> 1. List different approaches or modalities 2. Formulate a clinical question 3. Answer a clinical question using "PICO" 4. Identify and name best available evidence <p>Topics List:</p> <ul style="list-style-type: none"> • Burs, drills • hand files types rotary files (with cross section shape when indicated) • Apex locator • Rotary motors 	Based on WTT	2.5%

			<ul style="list-style-type: none"> • Heat source systems, thermo-plasticizing GP systems • Paper points, standardiz ed GP points, non-standardiz ed GP, • Irrigation solutions, intracanal medicamen ts • Irrigation needles and systems • Mirror, explorer, pluggers, ruler, endo block, excavator • Rubber dam kits and different clamps • Setting up the working space (tray organizatio n) 		
	Presentation	EBD Application - Poster Presentation Skills	<p>SPP: Group Work</p> <p>Students will present their EBD project using a pre-prepared poster template.</p> <p>Presenter will be selected randomly from the group</p> <p>Mark granted will be assigned to the whole group</p>	TBD	2.5%

	Student Logbook	Keeping records of own experience	Throughout the year	Affect marks assigned to clinical requirements and MPEs	Student Logbook
Final Assessment	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	10%
	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem. W16	35%
	Simulated Competency Exam (SCE)	Simulated Competency Exam*	SCE for Procedure*: RCT for Anterior Teeth	Throughout the year	10%
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and outcome of RCT	OSPE will be Slide presentation and MCQs to assess students' on: <ol style="list-style-type: none"> 1. Instrument identification and uses 2. RCT techniques 3. Material indications, advantages and disadvantages 4. RCT outcome and quality 5. Endodontic diagnosis 	2 nd sem. W16	5%
	Objective Structured Clinical Examination (OSCE)	Test instrument identification , arrangement , and quality of RCT*	OSCE Station 1*: Designed to assess student ability to: <ol style="list-style-type: none"> 1. Identify RCT instruments 2. Arrange instruments logically based on stages of RCT 	2nd sem W11	5%

			OSCE Station 2*: Designed to assess student ability to: 1. Assess the quality of RCT and identify errors in procedures		5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDRules and regulations			(minus) 2%
Total					100%

ORAL & MAXILLOFACIAL PROSTHODONTICS DEPARTMENT (OMR)

The department includes the following divisions

- Removable Prosthodontics Division
- Fixed Prosthodontics Division

DEPARTMENT COMPULSORY COURSES BY DIVISIONS

Division	Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
					Th.	Pr.	Tr.		
Removable Prosthodontics	Preclinical Removable Prosthodontics	OMR 424	هايس 424	2	1	3	0	4	OBBS 223
Removable Prosthodontics	Removable Prosthodontics	OMR 423	هايس 423	4	1	0	3	4	OBBS 223
Removable Prosthodontics	Implantology	OMR 521	هايس 521	2	2	0	0	2	ANTD 201
Removable Prosthodontics	Removable Prosthodontics	OMR 523	هايس 523	4	1	0	3	4	OMR 423
Fixed Prosthodontics	Fixed Prosthodontics & Occlusion	OMR 434	هايس 434	4	2	4	0	6	CDS 233
Fixed Prosthodontics	Fixed Prosthodontics & Occlusion	OMR 534	هايس 534	5	1	2	3	6	OMR 434

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
4th	Preclinical Removable Prosthodontics	OMR	424
4th	Removable Prosthodontics	OMR	423
4th	Fixed Prosthodontics & Occlusion	OMR	434
5th	Implantology	OMR	521
5th	Removable Prosthodontics	OMR	523
5th	Fixed Prosthodontics & Occlusion	OMR	534

REMOVABLE PROSTHODONTICS DIVISION

Course name	Removable Prosthodontics
Course code	OMR 423
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	OBCS 223
Course format	Preclinical/Clinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Recognize the basic fundamentals, principles, concepts, techniques, and rationale of sound prosthodontic treatment.
1.2	Describe all materials, instruments, devices, clinical and laboratory steps involved in the fabrication of complete dentures
1.3	Describe surgical and non-surgical methods to improve denture bearing areas.
1.4	Describe measures required for long term service and maintenance in complete denture treatment and post insertion complaints.
2	Skills
2.1	Obtain and interpret medical history, radiographic, extra-oral, intra-oral diagnostic data and psychological status.
2.2	Differentiate between different materials, instruments and devices implemented during clinical procedures involved in the construction of removable complete dentures and post insertion complaints
2.3	Communicate effectively both verbally and in writing with patients, health care professionals, auxiliaries and colleagues

2.4	Perform all clinical pre and post-insertion steps required to fabricate well-fitted complete dentures as well as patient education
2.5	Use the web to search for relevant information.
3	Values
3.1	Demonstrate appropriate professional attitudes and behavior dealing with staff members & dental assistants
3.2	Apply current infection control guidelines
3.3	Assess his / her own work in a critical manner

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	PCC- Geriatric	Examination, Diagnosis, and Treatment Planning for CD patients.	2	Lecture
		Preliminary Impression for Completely Edentulous Patients	2	Lecture
		Final Impression for Completely Edentulous Patients	2	Lecture
		Mandibular Movements and their Clinical Significance	2	Lecture
		Articulators and Face bows: ClinicalSignificance and Procedures	2	Lecture
Humanism	Feedback & Conflict Resolution	Revision and feedback	4	Tutorial
The Dentist	PCC-Geriatric	Jaw Relations for Completely Edentulous Patients (Part I)	2	Lecture
		Jaw Relations for Completely Edentulous Patients (Part II)	2	Lecture
		Teeth Selection and Guidelines for Complete Denture Aesthetics	2	Lecture
		Principles of Occlusion in Complete Dentures	2	Lecture

		Retention, support, and Stability in Complete Dentures (Part I)	2	Lecture
		Retention, support, and Stability in Complete Dentures (Part II)	2	Lecture
		Evaluation of Trial Denture (Try-In Stage).	2	Lecture
		Relief and Posterior Palatal Seal	2	Lecture
The Dentist	PCC-Geriatric	Denture Insertion	2	Lecture
		Remounting & Selective Grinding	2	Lecture
		Post-Insertion Complaints	2	Lecture
		Long-Term Service and Maintenance for Complete Dentures	2	Lecture
		Repair and Relining of Complete Dentures	2	Lecture
Humanism	Feedback & Conflict Resolution	Lab and Clinical Sessions	80	Prosthetic Lab and Clinical Sessions
Total				120

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessment	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1st sem	5%
	Mid Year	Knowledge/ Cognitive Skills	Paper-Based: MCQs+ Short Answers	1st sem	10%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs +Short Answers	2nd sem	5%
	Clinical Requirement and assignment	Mandatory Clinical/Sim ulated prosthodont	To develop technical/clinical skills in removable	Throughout the Year	20%

		ics procedures, knowledge and professionalism	prosthodontics procedures, students are expected to finish the requirements listed in the table below		
		While being marked, student will receive ample assistance and feedback on their performance			
	Minimal Procedure Experience (MPEs)	Clinical-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Clinical Competency Exam (CCE)	Clinical-MPE for each of the following procedures:		
			Procedure 1: Preliminary impression for maxillary OR mandibular completely edentulous ridges and evaluation of quality based on checklist	1st sem	5%
			Procedure 2: Secondary impression for maxillary OR mandibular completely edentulous ridges	2nd sem	5%
Final Assessment	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs +Short Answers	2nd sem	20%

	Clinical Competency Exam (CCE)	Clinical Competency Exam*	CCE - 1 for Procedure*: Preliminary impression for maxillary OR mandibular completely edentulous ridges (choice based on arch taken in MPE procedure, should be opposing arch to gain experience in both) and evaluation of quality based on checklist	2nd sem	10%
		Your competence is dependent on your clinical skills as well as practice management skills and adherence to code of professional conduct.	CCE - 2 for Procedure*: Secondary impression for maxillary OR mandibular completely edentulous ridges (choice based on arch taken in MPE procedure, should be apposing arch to gain experience in both) and evaluation of quality based on checklist	2nd sem	10%
	Objective Structured Practical Examination (OSPE)	Clinical knowledge*	OSPE will be Slide presentation with MCQs to assess students' clinical knowledge	2nd sem	5%

	Objective Structured Clinical Examination (OSCE)	Instrument Identification, Procedural and Analytic Skills This is a pass/fail exam	<p>OSCE Station 1*: Designed to assess student ability to:</p> <ol style="list-style-type: none"> 1. Identify which point is the “VDR” (vertical dimension of rest) and which is the “VDO” (vertical dimension of occlusion) using tongue depressor 2. Explain the difference between “VDR” and “VDO” 	2nd sem	2.5%
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			<p>OSCE Station 2*: Designed to assess student ability to:</p> <p>1. Select the most appropriate maxillary and mandibular trays suitable for a given case and explain any modifications necessary (if any)</p> <p>2. Select the suitable impression material, proper border material, and the tray you need for</p> <p>a particular case.</p>		2.5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations			(minus) 2%
Total					100%

Course name	Preclinical Removable Prosthodontics
Course code	OMR 424
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fourth Year
Credit hours	2

Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	OBCS 223
Course format	Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Recognize the fundamentals, principles, concepts, techniques, and rationale of sound prosthodontic treatment.
1.2	Outline different surgical and non- surgical methods used to improve denture bearing areas and optimize prosthetic treatment.
1.3	Describe all clinical and laboratory steps involved in the fabrication of complete dentures and different measures required for long-term service and maintenance
1.4	Recognize different materials, instruments and devices used during clinical procedures involved in the construction of removable complete and partial dentures
2	Skills
2.1	Relate different anatomical landmarks with the construction of removable complete dentures.
2.2	Use various instruments, materials and devices during laboratory procedures involved in the fabrication of removable complete and partial dentures properly
2.3	Perform all laboratory steps required to fabricate removable complete and definitive removable partial dentures excluding denture processing.
2.4	Draw relevant anatomical landmarks on complete denture casts
2.5	Communicate both verbally and in writing with peers, supervisors and dental technicians
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with peers, colleagues, supervisors, and comply with the institutional professional code of conducts.
3.2	Show the ability for self-assessment, reflection and receiving constructive criticism.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
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The Dentist	Preclinical Prosthodontics	Introduction to the course, Terminology, Steps of complete denture construction	2	Lecture
		Extra-oral and Intra-oral Landmarks in Complete Denture	1	Lecture
		Impression Trays for the Completely Edentulous Patients- Custom Tray	1	Lecture
		Occlusion Blocks	1	Lecture
		Introduction to Face bows and Articulators	1	Lecture
Humanism	Feedback & Conflict Resolution	Revision and feedback	4	Tutorial
The Dentist	Preclinical Prosthodontics	Basic Mounting Techniques on Different Types of Articulators	2	Lecture
		Basics of Complete Denture Occlusion	2	Lecture
		Arrangement of Artificial Anterior Teeth	1	Lecture
		Arrangement of Artificial Posterior Teeth	1	Lecture
		Waxing up and Denture Processing	2	Lecture
		Introduction to Preclinical Removable Partial Dentures Module, Classification of partially edentulous cases	2	Lecture
		Components of Removable Partial Dentures	2	Lecture
		Introduction to Surveying	2	Lecture
		Denture Bases	2	Lecture

The Dentist	Preclinical Prosthodontics	Rests and Rest Seats	2	Lecture
		Direct Retainers Part 1	2	Lecture
		Direct Retainers Part II	2	Lecture
		Indirect Retainers	2	Lecture
		Maxillary Major and Minor Connectors	1	Lecture
		Mandibular Major and Minor Connectors	1	Lecture
		Surveying in relation to RPD Design	1	Lecture
		RPD Design	2	Lecture
		Laboratory Processing	1	Lecture
The dentist	Preclinical Prosthodontics		80	Prosthetic Lab and Clinical Sessions
Total				120

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessment	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W13	5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem.	5%

	Practical Requirements	Mandatory simulated prosthodontics procedures	To develop technical and communication skills in removable prosthodontics procedures, students are expected to finish the requirements listed in the table below	Throughout the year	18%
		Mandatory Communication Skill – Lab request form for fixed prosthesis	While being marked, student will receive ample assistance and feedback on their performance		2%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
	Minimal Procedural Experiences (MPEs)	Simulated-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Simulated Competency Exam (SCE)	Clinical-MPE for each of the following procedures: Procedure 1: (X 1) Special tray construction Procedure 2: (X 1) Occlusion block Procedure 3: (X 1) Setting artificial teeth with setup Checklist	1 st sem	10%

			Procedure 4: (X 1) Surveying Procedure 5: (X 1) RPD wax pattern form	2 nd sem	
Final Assessment	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based MCQs and Short Answers	1 st Sem W16	15%
	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based MCQs and Short Answers	2 nd Sem	20%
	Simulated Competency Exam (SCE)	Simulated Competency Exam	SCE - 1 for Procedure*: Special tray construction SCE - 2 for Procedure*: Occlusion block	1 st Sem	8%

			SCE - 3 for Procedure*: Setting artificial teeth with setup checklist	2 nd Sem	12%
			SCE - 4 for Procedure*: Surveying		
			SCE - 5 for Procedure*: RPD wax pattern form		
	Objective Structured Practical Examinations (OSPE)	Clinical knowledge and Communication with the lab* This is a pass/fail exam	OSPE will be Slide presentation and short answers to assess students' on: Instrument Identification Material indications, advantages and disadvantages Writing a lab prescription	2 nd Sem	5% (2%+3%)
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Removable Prosthodontics
Course code	OMR 523
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4

Contact hours / week	4 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	OMR 423
Course format	Clinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Recognize the fundamentals, principles, concepts, techniques, and rationale of sound prosthodontic treatment, with description of all the clinical and laboratory steps involved in the fabrication of retentive, stable and esthetic removable prosthesis with superior phonetics quality, as well as different materials, instruments and devices implemented during clinical procedures involved in the construction of removable prostheses.
1.2	Outline different surgical and non-surgical methods used to improve denture foundation areas and optimize prosthetic treatment.
1.3	Describe different measures required for long term service and maintenance in partial denture treatment (relining, rebasing and repair), as well as different post-insertion complaints in patients who received a removable partial denture.
2	Skills
2.1	Interpret diagnostic images, normal and abnormal oral conditions and their relationship to prostheses fabrication, with determination of patient's prosthodontic need and the degree to which those needs can be met.
2.2	Differentiate between different post-insertion complaints, with the interpretation of the typical problems that can occur during partial denture construction.
2.3	Formulate a comprehensive diagnosis and appropriate comprehensive case-specific, prioritized and sequenced treatment plan and/or referral plan for the management of patients considering patients' needs, treatment alternatives and financial consideration, while correlating patients' general health with oral condition, biological, mechanical and physiological aspects of prosthodontic management of partially edentulous patients.
2.4	Communicate effectively with patients, peers, colleagues , supervisors and laboratory staff by writing clear and precise prosthodontic laboratory prescription and instructions with drawing of RPD design, taking into consideration the importance of interdisciplinary consultation and referral concepts for patients.
2.5	Perform thorough clinical examination, general assessment of the patients' health and psychological status (mental attitude), and management of edentulous areas including impression taking, and mounting the diagnostic casts with proper interocclusal records.
2.6	Use net/web searching to complete assignments.
3	Values

3.1	Demonstrate professional ethical attitude and skills of self -assessment and responsibility by showing up on time in clinical session and submitting the assigned work on time.
3.2	Practice safe dentistry by using data entry on electronic health records system (R4 system), and performing all clinical and laboratory steps using proper infection control

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	Introduction to the Course "Review of Diagnosis and Diagnostic Tool in Prosthodontics and Assessment of Previous Knowledge via Blackboard"	1	Lecture with interactive discussion
		Preliminary Impression for Partially Edentulous Cases		
		Diagnostic Data Evaluation for Partially Edentulous Cases	1	Lecture with interactive discussion
		Occlusal Analysis	1	Lecture with interactive discussion
		Occlusal Assessment, Pouring and Mounting	1	Lecture with interactive discussion
		Occlusal Assessment, Pouring and Mounting Demo & Practice	3	Practical session
		Assessment and Treatment Planning for Partially Edentulous Cases (In collaboration with OMR 534)	2	Interactive Collaborative Teaching
		Master Diagnosis and Treatment Planning Museum	2	Interactive Session OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534
	CCP – Prosthodontics	Introduction to Clinical RPD	1	

		Clinical Aspects of Different RPD Components	1	Lecture with interactive discussion
		Temporary RPD	1	Lecture with interactive discussion
		Surveying and Surveyed Crowns	1	Lecture with interactive discussion
		Principles of RPD Design (Part 1)	1	Lecture with interactive discussion
		Principles of RPD Design (Part 2)	1	Lecture with interactive discussion
		RPD Designing and Surveying Demo & Practice	6	Prosthodontic Lab
		Mouth Preparations for RPD	1	Lecture with interactive discussion
		Final Impressions for Partially Edentulous Cases	1	Lecture with interactive discussion
		Try-in of Metallic Framework of RPD	1	Lecture with interactive discussion
		Establishment of Occlusal Relationships	1	Lecture with interactive discussion
		Try-in of Waxed-up Partial Dentures and Evaluation of Esthetics	1	Lecture with interactive discussion
		Delivery of RPD	1	Lecture with interactive discussion
		Post-Delivery Care	1	Lecture with interactive discussion
		Post-Insertion Complications		
		Single Denture	1	Lecture with interactive discussion
		Over Denture (Overview & Abutment Preparation)	1	Lecture & Video Presentation
		Immediate Dentures	1	Lecture & Video Presentation
	CCP - Maintenance and Assessment of Treatment Outcome	Sequelae of Wearing Removable Prosthesis	1	Lecture with interactive discussion

		Relining, Repair and Rebasing	1	Lecture with interactive discussion
		Maintenance and Assessment of Treatment Outcomes	counted in OBCS 545	Integrated CBL with OBCS 545, OMR 534, OMR 521, CDS 511
	CCP – OMFS	Basic Pre-Prosthetic Surgery (1)	1	Lecture with interactive discussion
		Basic Pre-Prosthetic Surgery (2):	1	Lecture with interactive discussion
		Advanced Pre-Prosthetic Surgery	1	Lecture with interactive discussion
		Digital Applications in Removable Prosthodontics	1	Lecture with interactive discussion
	CCP-Prosthodontics	Clinical sessions: Sem 1: 3 hours x 12 weeks Sem 2: 3 hours x 15 weeks	81	Clinical Sessions
Total				120 hours

Type	Assessment activities*			Assessment Timing (In Week No)	Percentage of Total Assessment Score	
Continuous assessment	Quiz 1	Knowledge/ Cognitive Skills	Test-Based written assessment	1 st sem. W5	4%	
	Quiz 2	Knowledge/ Cognitive Skills	Test-Based written assessment	2 nd sem. W5	5%	
	Clinical Requirements	Cognitive skills	Performance-based assessment	Throughout the year	15%	30%
	Minimal Procedural Experiences (MPEs)	Cognitive skills	MPE	Throughout the year	15%	
	Comprehensive Care Practice (CCP) Presentation	Cognitive skills integrated with: • OBCS 556 • OBCS 545 • CDS 511 • CDS 522	• CCP	Based on WTT	1%	

		<ul style="list-style-type: none">• OMR 523• OMR 534			
	Student Logbook	Keeping records of one's own experience		Throughout the year	-
	Midyear Exam	Knowledge/Cognitive Skills	Test-Based written assessment	1 st sem. W16	15%
Final Assessments	Final Year Exam	Knowledge/Cognitive Skills	Test-Based written assessment	2 nd sem. W16	20%
	Clinical Competency Exam (CCE)	Cognitive skills	CCE 1, 2, 3	Throughout the year	15%
	Objective Structured Practical Examination (OSPE)	Knowledge/Cognitive skills	Test-Based written assessment	2 nd sem. W16	5%
	Objective Structured Clinical Examination (OSCE)	Cognitive	Performance-Based assessment	2 nd sem. According to Schedule	5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations			(minus) 2%
Total					100%

Course name	Implantology
Course code	OMR 521
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fifth Year
Credit hours	2
Contact hours / week	2 Hours/Week
Proposed semester (s)	Second Semester

Prerequisite	ANTD 201
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Recognize the basic sciences related to dental implants rationale, bone biology, biomaterials & patient selection
1.2	Explain various diagnostic aids required for implant cases and fundamentals of implant treatment plans based on the patient's risk profile
1.3	Describe peri-implant soft tissue basic surgical and prosthetic armamentarium, protocols, and techniques in dental implant rehabilitation , as well as different loading protocols, occlusion schemes, maintenance protocols and different types of complications related to implant cases.
2	Skills
2.1	Compare between different implant surface treatments, surgical protocols, prosthetic techniques, and complications, as well as different types of abutments and superstructure at preclinical settings
2.2	Interpret clinical data and diagnostic records related to implant treatment, including CBCT to formulate diagnosis of a single tooth implant patient, and design prosthetically driven implant treatment plan for single tooth implant cases using CBCT software ,while assisting postgraduate fellows in surgical insertion of implant for the patient
2.3	Communicate effectively, with peers, colleagues and supervisors.
2.4	Fabricate radiographic and surgical templates, as well as different implant impressions.
2.5	Use the web to search for relevant information
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with peers, colleagues, supervisors, as well as teamwork complying with the institutional professional code of conducts.
3.2	Perform infection control, and laboratory protection measures efficiently
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Patient	The Head & Neck - Oral Mucosal and Underlying Osseous Structures "in Health"	Introduction to the Implantology Course	1	Lecture with Interactive Discussion

The Dentist	DxTP for CCP - Implantology	Rationale of Dental Implants and Implant Terminology	1	Lecture with Interactive Discussion
		Clinical Evaluation of Implant Sites	1	Lecture with Interactive Discussion
		Radiographic Assessment of Implant Sites	1	Lecture with Interactive Discussion
		Patient Selection, Diagnosis and Treatment Planning for Dental Implants	1	Lecture with Interactive Discussion
		Radiographic and surgical template fabrication	4	Hands-on practical session
		CBCT interpretation	1	Lecture with Interactive Discussion
		Implant surgical planning	1	Lecture with Interactive Discussion
		Implant surgical procedure	1	Lecture with Interactive Discussion
		Implant Loading Protocol	1	Lecture with Interactive Discussion
		Implant Osseointegration; Biological and Clinical Prospective	1	Lecture with Interactive Discussion
		Factors Affect Implant Osseointegration	1	Lecture with Interactive Discussion
		Implant Loading Protocol	1	Lecture with Interactive Discussion
		Dental Implant Impressions	1	Lecture with Interactive Discussion
		Implant impression making (I)	2	Practical Laboratory Session
		Implant impression making (II)	2	Practical Laboratory Session
		Digital Implant impression making	2	CBL
		Implant Prosthetic Options- Part I: Implant-Supported Restorations	1	Lecture with Interactive Discussion
		Implant Prosthetic Options- Part II: Implant-Supported Overdentures	1	Lecture with Interactive Discussion

		Implant occlusion	1	Lecture with Interactive Discussion
		Implant crown delivery	1	CBL
	CCP - Maintenance and Assessment of Treatment Outcome	Maintenance and Biological Complications of Dental Implants	1	Lecture with Interactive Discussion
		Mechanical Complications of Dental Implants	1	Lecture with Interactive Discussion
	Humanism and Feedback	Revision and feedback	1	Lecture with Interactive Discussion
Total		30 hours		

FIXED PROSTHODONTICS DIVISION

Course name	Fixed Prosthodontics & Occlusion
Course code	OMR 434
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fourth Year
Credit hours	4
Contact hours / week	6 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	CDS 233
Course format	Preclinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Identify nomenclature of different fixed restorations and principles of occlusion

1.2	Recognize biologic, mechanical and aesthetic principles, indications, contraindications, advantages, disadvantages, & preparatory steps of different complete veneer crowns (CVCs), and partial veneer crowns (PVCs).
1.3	Identify different techniques, instruments and materials used to fabricate provisional restorations.
1.4	Outline specifically all laboratory steps needed to fabricate metallic restorations
2	Skills
2.1	Justify the function served by each preparatory feature to satisfy biologic, mechanical and esthetic requirements of different full veneer restorations
2.2	Apply all preparatory steps needed to construct a diagnostic cast and estimate working cast fabrication techniques and all their related materials
2.3	Compare different techniques and methods for fabricating provisional restorations either for single restoration or fixed partial denture
2.4	Explain the rationale and management of restoring endodontically treated tooth
2.5	Perform all laboratory procedures needed to fabricate full metal cast crown, PFM crown and All ceramic crowns
2.6	Communicate both verbally and in writing with peers, supervisors and dental technicians
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with peers, colleagues, supervisors, complying with the institutional professional code of conduct.
3.2	Carry out self-assessment for laboratory steps and accept constructive criticism and feedback
3.3	Perform infection control, health and safety; as well as laboratory protection measure efficiently

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Preclinical Prosthodontics	Introduction to the Course	2	Lecture
		Terminology, and Classification of Fixed Prosthesis		
		Instruments Used in Fixed Prosthodontics (Phantom Lab)	3	Practical (Video Demo)

		Instruments Used in Fixed Prosthodontics (Prosthetic Lab)	2	Practical (Model Demo)
		Principles of Tooth Preparation I	2	Lecture
		Full Metal Veneer Crown Preparation		
		Full Metal Veneer Crown Preparation (Phantom Simulation Lab Demos)	2	Phantom Simulation Lab
		Principles of Tooth Preparation II	1	Lecture
		Diagnostic Waxing Demo	1	Prosthetic Lab
		Principles of Tooth Preparation III	1	Lecture
		Primary Impression Demo	2	Prosthetic Lab
		Principles of Tooth Preparation IV	1	Lecture
		Provisional Restoration	1	Lecture
Humanism	Feedback & Conflict Resolution	Revision & Feedback	2	Lecture
The Dentist	Preclinical Prosthodontics	Indirect Provisional Restorations Demo	2	Prosthetic Lab
		Metal-Ceramic Crown Preparation	1	Lecture
		Posterior Metal Ceramic Crown Preparation "Posterior Teeth" Demo	2	Phantom Lab
		Working Cast & Dies	1	Lecture
		Working Cast and Dies Demo	2	Prosthetic Lab
		Working Cast Mounting Demo	2	Prosthetic Lab
		All-Ceramic Crown Preparation	1	Lecture

		All-Ceramic Crown Preparation Demo	2	Phantom Lab
		Anterior Metal Ceramic Crown Preparation Demo	2	Phantom Lab
		Fixed Partial Denture Preparation and Retainers I	1	Lecture
		Fixed Partial Denture Preparation and Retainers II	1	Lecture
		Pontic	1	Lecture
		FPD Preparation & Temporization Demo	1	Phantom Lab
		Wax Pattern	1	Lecture
		Spruing and Investing	1	Lecture
Humanism	Feedback & Conflict Resolution	Revision & Feedback	2	
The Dentist	Preclinical Prosthodontics	Wax Pattern On #46 Demo	2	Prosthetic Lab
		Burnout and Casting Techniques	1	Lecture
		Restoration of Endodontically Treated Teeth I	1	Lecture
		Restoration of Endodontically Treated Teeth II	1	Lecture
		Cast Post and Core Demo	2	Phantom Lab
		Prefabricated Cast Post and Core Demo	2	Phantom Lab
		Connecters and Soldering	1	Lecture
		Finishing and Polishing of Cast Restoration	1	Lecture
		Lab sessions	126	Phantom/Prosthetic Lab
Total				180

Type	Assessment Activities*			Assessment Timing (in Week No)	Proportion of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge /Cognitive Skills	Paper-Based: MCQs	1 st sem. W9	5%
	Quiz 2	Knowledge /Cognitive Skills	Paper-Based: MCQs	2 nd sem. W6	5%
	Practical Requirements	Mandatory simulated prosthodontics procedures : To develop technical and communication skills in fixed prosthodontics procedures , students are expected to finish the requirements While being marked, student will receive ample assistance and feedback on their performance	Procedures to be submitted at R1: -(X2) Full metal veneer crown preparation -(X1) Diagnostic wax up	1 st sem. W9	10%
			Procedures to be submitted at R2: -(X1) Posterior metal-ceramic crown preparation -(X1) Anterior metal-ceramic crown preparation	1 st sem. W13	
			Procedures to be submitted at R3: -(X2) Anterior all-ceramic crown preparation -(X2) Direct provisional restoration -(X1) Mounted master cast and die	2 nd sem. W8	
			Procedures to be submitted at R4: -(X1) FPD preparation & Provisional restoration -(X1) Prefabricated post and core -(X1) Custom made post and core -(X1) Wax Pattern	2 nd sem. W 12	
		Mandatory Communication Skill – Lab request form for	(X4) Lab forms	2 nd sem. W 12	2%

		fixed prosthesis			
	Minimal Procedural Experiences (MPEs)	Simulated-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Simulated Competency Exam (SCE)	Procedures to be submitted at R1: (X 2) Full Metal Crown prep. #46	1 st sem. W9	10%
			Procedures to be submitted at R2: (X 1) Posterior Metal Ceramic crown preparation (X 2) Indirect Provisional Restoration	1 st sem. W13	
			Procedures to be submitted at R3: (X 1) Anterior All Ceramic Crown	2 nd sem. W8	
			Procedures to be submitted at R4: (X 1) Wax Pattern on #46	2 nd sem. W 12	
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
	Midyear Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	10%
	Final Year Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	2 nd sem. W16	35%
	Final Assessments	Simulated Competency Exam (SCE)	SCE - 1 for Procedure*: Full Metal Crown prep. #46 SCE - 2 for Procedure*: Indirect provisional restoration	1 st sem. W14	10%
			SCE - 2 for Procedure*: selected tooth preparation (either Full metal crown preparation or posterior metal ceramic crown	2 nd sem. W12	10%

			preparation or anterior all ceramic crown) SCE - 3 for Procedure*: wax pattern fabrication on tooth #46		
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and Communication with the lab* This is a pass/fail exam	OSPE will be Slide presentation and MCQs to assess students' on: 1. Instruments identification and uses 2. Material indications, advantages and disadvantages 3. Writing a lab prescription	2 nd sem. W16	3%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDD rules and regulations			(minus) 2%
Total					100%

Course name	Fixed Prosthodontics & Occlusion
Course code	OMR 534
Faculty	Dentistry
Department / Division	Oral & Maxillofacial Prosthodontics / Removable Prosthodontics
Course type	Required
Academic year (level)	Fifth Year
Credit hours	5
Contact hours / week	6 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	OMR 434

Course format		Clinical course with practical training
Course Learning Outcomes (CLOs)		
1	Knowledge and Understanding	
1.1	Describe the principles of occlusion, some laboratory aspects of constructing crowns and simple fixed dental prostheses and management of simple occlusal disorders and its implications, considering the possible referrals.	
1.2	Identify steps of fabrication of a biologically compatible, esthetically and functionally acceptable provisional and definitive restoration.	
2	Skills	
2.1	Relate the basic concepts and information necessary for the diagnostic work-up, treatment planning of fixed prosthodontic restorations and the final patient acceptance of the treatment plan, while assessing the patients' needs, time and cost effectiveness, setting evidence for clinical judgment and decision- making.	
2.2	Integrate the clinical knowledge of different disciplines, biomechanical concepts and patient's data to develop a definitive diagnosis and formulate sequential treatment plan and management of clinical fixed prosthetic cases that considers the art of evidence, clinical expertise, biomedical concepts for selection of prosthetic/ restorative materials, and patient preference, in addition to postoperative care and a maintenance program with highlights on the possible risk factors	
2.3	Communicate effectively with patients, peers, supervisors and colleagues, developing a good dentist- laboratory technician relationship including a predictable laboratory prescription written form.	
2.4	Demonstrate clinical skills in utilizing face bow, inter- occlusal records and semi adjustable articulator for mounting diagnostic casts, as well as in proper assessment and management of simple occlusal disorders and its implications, considering the possible referrals.	
2.5	Demonstrate laboratory skills in some aspects of constructing crowns and simple fixed dental prostheses, including fabricating a biologically compatible, esthetically and functionally acceptable provisional and definitive restoration.	
2.6	Perform the different types of teeth preparations, safe tissue management and final impression techniques, following the biologic, mechanical and esthetic considerations, designing a postoperative care and maintenance program with highlights on the possible risk factors..	
2.7	Utilize PubMed and Google to search, retrieve and critically evaluate current literature to solve clinical problems..	
3	Values	
3.1	Demonstrate ethics, and professionalism, with patients, colleagues , supervisors and other health providers for a comprehensive successful treatment plan and possible referrals.	

3.2	Maintain safe dental practice by operating at a competent level the R4 electronic patient file system for documentation of all patient information and by following proper infection control measures.
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List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist The Dentist The Dentist	Basic Dental Skills-EBD (Level 2)	Evidence-Based Dentistry (EBD-Part 2)	1	Lecture with interactive discussion
	DxTP for CCP - Adult, Geriatric and Special Need TMJ & Occlusion Module	Perspectives on Occlusion	1	Lecture with interactive discussion
		Occlusal Analysis (OMR 523)	Counted in OMR 523	Lecture with interactive discussion
		Occlusal Assessment Pouring and Mounting (OMR 523) Demo & Practice	Counted in OMR 523	Mini Lecture & Practical Session
		A Clinical Guide to Occlusal Rehabilitation	1	Lecture with interactive discussion
		Occlusal Stability in Operative Dentistry (CDS 511)	Counted in CDS 511	Lecture with interactive discussion
		Management of Occlusal Problems	1	Lecture with interactive discussion
		Evaluation and Assessment of Occlusal Problems	1	Integrated CBL with CDS 511
		Application of Behavioral Sciences Concepts in Clinical	2	Lecture with interactive discussion

		Dentistry for Adults: Effect of Socioeconomic Status		
		Patient Selection, Diagnosis and Treatment Planning for Fixed Prostheses		
		Diagnostic Wax-Up in Prosthodontics (In collaboration with OMR 523)	1	Lecture with interactive discussion
		Assessment of Treatment Planning for Partially Edentulous Cases (In collaboration with OMR 523)	Counted in OMR 523	Lecture with Interactive discussion
		Master Diagnosis and Treatment Planning Museum	2	Interactive Session OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534
	CCP - Prosthodontics	Based on Science: Principles of Tooth Preparation Designs	1	Lecture with interactive discussion
		Partial Coverage Restorations	1	Lecture with interactive discussion
		Tissue Management and Impression Making	1	Lecture with interactive discussion
		Color and Shade Selection	1	Lecture with interactive discussion

		Framework Design for Metal Ceramics Restoration	1	Lecture with interactive discussion
		Clinical Try-in: Checking and Verification	1	Lecture with interactive discussion
		Cement and Cementation	1	Lecture with interactive discussion
	CCP-Assessment and Management of Mutilated Teeth	Preparation of the Periodontium for Restorative Treatment/Restorative inter-relationship (Supra Crestal Attachment)	Counted in OBCS 545	Lecture with interactive discussion
		Pretreatment Assessment of Mutilated Teeth: Periodontal Perspective (OBCS 545)	Counted in OBCS 545	Lecture with interactive discussion
		Crown Lengthening (OBCS 545)	Counted in OBCS 545	Lecture with interactive discussion
		Pre-Treatment Assessment of Mutilated Teeth: Restorative and Endodontic Aspects	1	Lecture with interactive discussion
		Restoration of Mutilated Teeth (CDS 511)	Counted in CDS 511	Lecture with interactive discussion
		Restoration of Endodontically Treated Teeth	1	Lecture with interactive discussion
		Evidence- Based Treatment in Restoring Endodontically Treated Teeth	2	Interactive discussion with feedback

		Decision Making in Assessment and Management of Mutilated Teeth	1	Integrated CBL with CDS 511, OBCS 545
		Esthetic Considerations in Fixed Prosthodontics	2	Lecture with interactive discussion
	CCP-Esthetics in Dentistry	All Ceramic Restorations: An Approach to Material Selection	1	Lecture with interactive discussion
		Laminate Veneers	1	Lecture with interactive discussion
		Resin-Bonded Restorations	1	Lecture with interactive discussion
		Esthetics in Dentistry (Host: CDS 511)	Counted in CDS 511	Integrated CBL with CDS 511, CDS 522, OBCS 545
	CCP - Maintenance and Assessment of Treatment Outcome	Periodontal Consideration in Prosthodontics	1	Lecture with interactive discussion
		Failures in Fixed Prosthodontics	1	Lecture with interactive discussion
		Maintenance in Fixed Prosthodontics	1	Lecture with interactive discussion
		Maintenance and Assessment of Treatment Outcomes (Host: OBCS 545)	Counted in OBCS 545	Integrated CBL with OBCS 545, CDS 511, OMR 523, OMR 521

	CCP - Prosthodontics	Clinical Sessions 1 st Sem: 3 hours x 15 weeks 2 nd Sem: 3 hours x 15 weeks	90	Clinical sessions
		Practical lab sessions: 1 st Sem: 2 hours x 15 weeks 2 nd Sem: 2 hours x 15 weeks	60	Practical Lab sessions
Total				180 hours

Type	Assessment Activities*			Assessment Timing (In week No)	Percentage of Total Assessment Score
Continuous Assessment	Integrated Quiz-1 (Quiz 1)	Knowledge/Cognitive Skills	Written assessment: Concept assessed in this course is "Assessment & Management of Mutilated Teeth" Quiz follows the Integrated CBL Session. Courses involved: • OMR 534 • OBCS 545 • CDS 511 • CDS 522	1 st sem. W6	5%
	Integrated Quiz-2 (Quiz 2)	Knowledge/Cognitive Skills	Written assessment Concept assessed in this course is "TMJ & Occlusion – Part 1" Quiz follows the Integrated CBL Session. Courses involved: • OMR 534 • OBCS 545 • CDS 511	2 nd sem. W4	5%
	Clinical Requirements	Mandatory clinical various operative	To develop clinical experience in operative	Throughout the year	35%

		<p>dentistry procedures</p> <p>While being marked, student will receive ample assistance and feedback on your clinical skills, practice management skills and code of professional conduct.</p>	<p>dentistry procedures, students are expected to finish the requirements listed in the table below</p>		
		Extra Requirements "Towards Comprehensive Care"	<p>5 prosthesis other than the ones listed as requirement and contribute to the total comprehensive care of you patients.</p> <p>While being marked, you can still have ample assistance and feedback on your clinical skills, practice management skills and code of professional conduct.</p>	Throughout the year	
	Minimal Procedural Experiences (MPEs)	<p>Clinical-MPE</p> <p>Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter</p>	<p>Clinical-MPE for each of the following procedures:</p> <p>a. 1 CPC</p> <p>b. 1 Prefabricated post.</p> <p>c. 3 crowns. (one at least posterior)</p>	Throughout the year	

		Competency Exam (CCE) Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.	d. 4 provisional crowns. e. CE after MPEs completion 1. Final impression 2. Provisional crown		
	In-Class Activity	Integrated Case-Based Learning Session of Integrated Modules	<u>CBL Activity:</u> Students are divided into small groups. Student will discuss an integrated clinical case scenario with complete examination records, radiographs, and photographs and will answer series of questions relevant to the module. <ul style="list-style-type: none"> • Diagnosis and Treatment Planning for CCP Module • Occlusion Module • Esthetics in Dentistry Module • Dental Urgencies and Emergencies Module 	Based on WTT	Formative

			<ul style="list-style-type: none"> Assessment of Mutilated Teeth Module Assessment of Treatment Outcome Module 		
	Comprehensive Care Practice (CCP) Presentation	Case Presentation	<p>Each student will present a CCP case</p> <p>Marks assigned equally to all involved courses (1% each course)</p> <ul style="list-style-type: none"> OBCS 556 OBCS 545 CDS 511 CDS 522 OMR 523 OMR 534 	Based on WTT	6.66%
	Student Logbook	Keeping records of own experience		Throughout the year	1.65%
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	Written assessment: MCQs	1 st sem. W16	10%
	Final Year Exam	Knowledge/ Cognitive Skills	Written assessment: MCQs	2 nd sem. W16	13.33%
		Clinical Competency Exam*	CCE-1: Provisional Crowns*	Throughout the year	5%
	Clinical Competency Exam (CCE)	Your competence is dependent on your diagnostic and clinical skills as well as practice management skills and adherence to code of professional conduct.	CCE 2: Final Impressions*		5%

	Objective Structured Practical Examination (OSPE)	Clinical knowledge and problem-solving skills in operative dentistry	Written case-based assessment: Short Notes	2 nd sem. W16	5%
	Objective Structured Clinical Examination (OSCE)	Test ability to Assess Quality of Prosthetics Work	<p>OSCE Station*: Clinical Try-in of metal coping for PFM crown Scenario, Assessment of Quality and Communicate with Lab</p> <p>Students' should demonstrate their ability:</p> <ol style="list-style-type: none"> 1. Use the appropriate instrument: 2. Explain and demonstrate a metal try-in, step by step on the typodont. 3. Detect flaws and quality of the metal coping 4. Lab instructions : What should you check and instruct the lab to do before applying porcelain? 	2 nd sem. W8	5%
	Mock Integrated (OSPE)	Comprehensive diagnosis and treatment planning for comprehensive practice (CCP)	Mock OSPE to train students and provide feedback	2 nd sem. W13	Formative
	Integrated (OSPE)		Integrated OSPE is designed to assess students' ability to reach comprehensive diagnosis and treatment	2 nd sem. W16	3.33%

			planning taking into consideration the social and behavioral component.		
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUD rules and regulations		(minus) 2%	
Total				100%	

ORAL& MAXILLOFACIAL SURGERY DEPARTMENT

(OMR)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Pain Control & Anesthesia	OMR 312	هاس 312	3	1	0	2	3	ANTD 201
Oral Surgery	OMR 511	هاس 511	4	1	0	3	4	ANTD 201
Oral Surgery	OMR 611	هاس 611	4	1	0	3	4	OMR 511

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
3 th	Pain Control & Anesthesia	OMR	312
5 th	Oral Surgery	OMR	511
6 th	Oral Surgery	OMR	611

Course name	Pain Control & Anesthesia
Course code	OMR 312
Faculty	Dentistry
Department / Division	Oral and Maxillofacial Surgery
Course type	Required
Academic year (level)	Third Year
Credit hours	3
Contact hours / week	3 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	ANTD 201
Course format	Preclinical course with practical training

Course Learning Outcomes (CLOs)

1	Knowledge and Understanding
1.1	Describe the neurovascular and muscular components of the head and neck and their relation to pain management .
1.2	Identify the mechanical principles, designs, and uses of local anesthetic instruments.
1.3	Describe the different anesthetic techniques used in the maxilla and mandible
2	Skills
2.1	Recognize the importance of the updated Local Anesthesia Guidelines for a safe clinical practice.
2.2	Explain the causes of immediate and delayed complications of local anesthesia, their prevention and management, both locally and systemically.
2.3	Adjust the dental chair to the proper position in relation to the dentist and patient
2.4	Select the appropriate armamentarium, local anesthetic technique, type, and dose based on regional nerve supply and the patient's systemic condition.
2.5	Monitor the patient during and after the local anesthetic procedures clarifying postoperative instructions
2.6	Use the Web and the proper search engines to search for relevant evidence-based information and calculation for the anesthesia dose and

	amount of carpules.
3	Values
3.1	Demonstrate ethics and professionalism
3.2	Perform infection control procedures effectively
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	ICD - Pain Control	Orientation to the course	1	Lecture
		Anatomy & Pain Pathway	1	Lecture
		Mandibular Injection Techniques I	1	Lecture
		Mandibular Injection Techniques II	1	Lecture
		Mandibular Injection Techniques III	1	Lecture
		Maxillary Injection Techniques I	1	Lecture
		Maxillary Injection Techniques II	1	Lecture
		Pharmacology and Systemic Action of LA Drugs	1	Lecture
		Pharmacology and Systemic Action of LA Drugs of Vasoconstrictors	1	Lecture
		Special Considerations in LA Techniques	1	Lecture
		Local Complications of LA	1	Lecture
		Systemic Complications of LA	1	Lecture
		Revision	1	Lecture
		Integration cases I/CBL and Application	2	Interactive session

		Integration cases II/CBL and Application	2	Interactive session
		Revision	1	Lecture
		Practical sessions	32	Practical
		Clinical sessions	32	Clinical
	Revision and Feedback	Divided between S1, S2	3	
	SDL		5	
TOTAL				90 %

	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
Continuous Assessments	Pop-Quiz	Assessment of previous knowledge	Written assessment: MCQS	1 st and 2 nd sem.	Formative
	Quiz 1	Knowledge /Cognitive Skills	Written assessment: MCQS & short essay	1 st sem. W9	5%
	Quiz 2	Knowledge /Cognitive Skills	Paper-Based: MCQS & short essay	2 nd sem. W8	5%
	Minimal Procedural Experiences (MPes)	7 Simulated injections LA Your competence depends on your knowledge, clinical skills, ability to provide post-operative instructions , and adherence to the code of professional conduct.	3 Simulated infiltration LA 4 Simulated Inferior alveolar blocks	Throughout 1 st sem.	10%

		7 Clinical injections of LA Your competence is dependent on your knowledge, clinical skills, ability to provide post-operative instructions , and adherence to the code of professional conduct.	3 Infiltration LA	Throughout 2 nd s em.	10%
			4 Inferior alveolar blocks		
	Student Logbook	Keeping records of one’s own experience		Throughout the year	Throughout The year-
Final Assessments	Midyear Exam	Knowledge /Cognitive Skills	Written assessment: MCQS & short essay	1 st sem. W15	15%
	Final Year Exam	Knowledge /Cognitive Skills	Written assessment: MCQS & short essay	2 nd sem. W15	35%
	Simulated Competency Exam (SCE)	Simulated Local Anesthesia Competency Exam	Students must pass this SCE to be eligible and safe for clinical practice	1 st sem. W14	10%
	Clinical Competency Exam (CCE)	Clinical Local Anesthesia Competency Exam*	CCE for: Infiltration LA Inferior alveolar blocks	2 nd sem. W14	10%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Oral Surgery
Course code	OMR 511
Faculty	Dentistry
Department / Division	Oral and Maxillofacial Surgery
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	ANTD 201
Course format	Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and Understanding
1.1	Define the etiology, progression, diagnosis, surgical management for orofacial infections, odontogenic cysts and tumors, maxillary sinus and dentoalveolar traumatic injuries, reconstruction of the jaws and their complications
1.2	List the indications and contraindications, steps of uncomplicated and complicated teeth extractions of erupted teeth, suturing techniques and post-operative care
1.3	Recognize the protocol for the management of medically compromised patients undergoing oral surgical procedures and the referral policy
2	Skills
2.1	Apply the information related to the sensory supply in relation to the management of pain and selection of local anesthesia.
2.2	Formulate differential diagnosis and diagnosis by performing a diagnostic work-up including history taking, vital signs registration, clinical and radiological examinations, requesting lab investigations, biopsy and formulation of treatment plan
2.3	Communicate effectively with peers, colleagues, supervisors and patients.
2.4	Choose the methods of prevention of complications, and surgical management of traumatic injuries of the maxillary sinus and post-operative care and instructions

2.5	Perform painless uncomplicated extraction with appropriate wound care and immediate response to any dental emergency, while choosing surgical instruments and design for minor oral surgical procedures
2.6	Correlate the management of medically compromised patients undergoing tooth extraction to their condition and local anesthetic technique and the immediate action in emergency cases occurring in the dental office.
3	Values
3.1	Demonstrate ethics, and professional attitude with colleagues, patients, and supervisors.
3.2	Practice safe dentistry by application of infection control measures and recording patient's data on R4 system.
3.3	Develop the ability to self-assess and life-long learning skills.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	CCP – Special Care & Management of Special Needs	Medical Emergencies	1	Lecture with interactive discussion
	CCP - OMFS	Management of Uncomplicated Extractions (dental forceps and elevators) - 1	1	Lecture with interactive discussion
		Management of Uncomplicated Extractions (dental forceps and elevators) - 2	1	Lecture with interactive discussion
		Management of Complicated Extractions (Surgical extraction) - 1	1	Lecture with interactive discussion
		Management of Complicated Extractions (Surgical extraction) - 2	1	Lecture with interactive discussion
	CCP - Maintenance and Assessment of Treatment Outcome	Prevention and Management of complications of extraction - 1	1	Lecture with interactive discussion
		Prevention and Management of complications of extraction - 2	1	Lecture with interactive discussion
	CCP - Special Care and Management of Special Need	Management of Patients with Cardiovascular System Condition - On the Dental Chair	1	Lecture with interactive discussion
		Management of Patients with Endocrine and Metabolic Disorders: Pregnancy, DM, Thyroid and Adrenal - On the Dental Chair	1	Lecture with interactive discussion

		Management of Patients with Pulmonary Diseases: Asthma and COPD - On the Dental Chair	1	Lecture with interactive discussion
		Management of Patients with Liver Diseases: Hepatitis and Cirrhosis - bleeding disorders On the Dental Chair	1	Lecture with interactive discussion
		Management of Patients with CNS Condition: CVA and Epilepsy -renal disease and renal failure- On the Dental Chair	1	Lecture with interactive discussion
		Management of Medical Emergencies in the Dental Office	2	CBL
		Medically compromised patients	2	CBL
	CCP - OMFS	Maxillary Sinus and its Dental Implications (1)	1	Lecture with interactive discussion
		Maxillary Sinus and its Dental Implications (2)	1	Lecture with interactive discussion
		Maxillary Sinus and its Dental Implications (3)	2	CBL
	Preclinical Inter-professional Skills	Biopsy Techniques (Assessment of Previous Knowledge)	1	Lecture with interactive discussion
	CCP - OMFS	Management of Cysts and Cyst-Like Lesions of the Jaws	1	Lecture with interactive discussion
	CCP - Dental Pain, Urgencies and Emergencies Module	Management of Acute Dental Trauma	2	Integrated CBL with PDS 511
		Management of Acute Dental Trauma	2	Practical session with PDS 511
	CCP - OMFS	Management of Tumors of the Jaws	1	Lecture with interactive discussion
		Tissue Reconstruction of the Jaws	1	Lecture with interactive discussion
	CCP - OMFS	Surgical Management of Oral Cancer	counted in OBCS 556	Lecture with interactive discussion
		Management of ORN & MRONJ		
		Oral Cancer Diagnosis and Management	counted in OBCS 556	Integrated CBL with OBCS 556, OP
	CCP - OMFS	Surgical Management of Traumatic and Obstructive Salivary Gland Disorders	counted in OBCS 556	Lecture with interactive discussion

	CCP - Special Care and Management of Special Need	Diagnosis and differential Diagnosis of Salivary Gland Tumors	counted in OBCS 556	Lecture with interactive discussion
	CCP - OMFS	Salivary Gland Disorders and Diseases Diagnosis and Management	counted in OBCS 556	Integrated CBL with OBCS 556, OR, OP
		Basic Pre-prosthetic Surgery	counted in OMR523	Lecture with interactive discussion
		Advanced Pre-prosthetic Surgery	counted in OMR523	Lecture with interactive discussion
	CCP - Special Care and Management of Special Need	Odontogenic Infection I: Causes/ Natural progression/ Microbiology/ Diagnosis Management of acute and chronic dentoalveolar infection without soft tissue involvement ADDA	1	Lecture with interactive discussion
	CCP-OMFS	Oral Surgery Clinics <ul style="list-style-type: none"> Medical emergencies in the dental office Clinical demo and practice of uncomplicated extraction Simulated uncomplicated and complicated exodontia 	90	Clinical Sessions
Total	120 hours			

	Assessment Activities			Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Test-based written assessment	1 st sem. W 9	5%
	Quiz 2	Knowledge/ Cognitive Skills	Test-based written assessment	2 nd sem. W8	5%
	Requirement	Cognitive Skills	Procedure -1: Interrupted sutures	1 st sem. W14	Requisite for accepting MPEs and entry clinical exam
			Procedure -2: Teeth extractions		
			Procedure -3: Responding to 6 medical emergency scenarios		

			(Invented dialogue)		
	Minimal Procedural Experiences (MPEs)	Clinical-MPE	Procedure -1: 12 unassisted teeth extractions Procedure -2: 2 Interrupted sutures on a simulated pad	Throughout the year	10%
	Poster Presentation	Cognitive skills/values	Performance-based assessment: Poster presentation	2 nd sem. W6	2.5%
	In-Class Activity	Cognitive skills	Case-based discussion (CBL)	1 st sem. W14 2 nd sem. W4, W10, W11	formative
		Cognitive skills	Case-based discussion (integrated CBL) PDS 511 OBCS 556	2 nd sem. W3, W5, W12	Graded in PDS 511, OBCS 556
	Student Logbook	Value	Keeping record of one's own experience	Throughout the year	Prerequisite to enter final CE
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	Test-Based written exam	1 st sem. W 15	20%
	Final Year Exam	Knowledge/ Cognitive Skills	Test-Based written assessment	2 nd sem. W15	35%
	Clinical Competency Exam (CCE)	Cognitive skills	performance-based assessment	2 nd sem. upon submission of MPEs	10%
	Objective Structured Practical Examination (OSPE)	knowledge and cognitive skills	test-based written assessment	2 nd sem. W15	10%
	Objective Structured	Cognitive skills		2 nd sem. W13	2.5%

	Clinical Examination (OSCE)		Observational-based assessment		
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations			(minus) 2%
Total					100%

Course name	Oral Surgery
Course code	OMR 611
Faculty	Dentistry
Department / Division	Oral and Maxillofacial Surgery
Course type	Required
Academic year (level)	Sixth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	OMR 511
Course format	Clinical course

Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Describe the signs and symptoms, anatomy, etiology, classification, diagnosis and management of impacted teeth, facial trauma, physical abuse, odontogenic infections, TMD, dentofacial deformities and orthognathic surgery and sleep apnea.
1.2	List the causes of preoperative, intraoperative and postoperative pain and anxiety
1.3	Recognize the hospital organization, perioperative management and indications for General anesthesia in oral surgery patients.
2	Skills
2.1	Select the proper instruments (forceps/ elevator) for performing extraction whether closed or surgical as indicated

2.2	Evaluate clinical, and laboratory diagnostic procedures with interpretation of their results
2.3	Discuss the management and complications of impacted teeth, TMD, dentofacial deformities, post-operative pain, facial Trauma and their complications.
2.4	Communicate effectively, with colleagues, health care professionals and patients regarding referral and follow-up protocols , with referral and follow-up protocols
2.5	Manage Odontogenic infections and the offending tooth including I&D, extraction, AB prescription and wound closure using different suture material.
2.6	Perform simple uncomplicated extraction of erupted teeth, as well as minor surgical extractions of fractured or retained roots, control of postoperative pain and anxiety reduction protocol in normal and medically compromised patients
2.7	Manage medical and dental emergencies of surgical, functional or traumatic origin
3	Values
3.1	Implement the code of dental ethics and professionalism in their relationship with supervisors, patients, peers and auxiliaries
3.2	Record the patients' diagnostic data using electronic health records system (R4 system) implementing infection control measures

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	CCC: Oral and Maxillofacial Surgery	Orientation week /medical emergencies/prescription writing/ Armamentarium/ LA revision	2	Lecture
		Review on Exodontia techniques and armamentarium	1	Lecture
		Third Molar Impaction	2	Lecture
The Patient	The Head and Neck / Oral Mucosal and Underlying Osseous Structures	Odontogenic Infections I Causes/ Natural progression/ Microbiology/ Diagnosis	1	Lecture
		Odontogenic Infections II Dentoalveolar abscess/ Pericoronitis/ Fascial space infections	1	Lecture
		Odontogenic Infections III Complications & surgical management	1	Lecture

		Odontogenic Infections IV General measures in treatment / Osteomyelitis/ Rare infections	1	Lecture
The Dentist	CCC: Oral and Maxillofacial Surgery	Integration case /CBL Impaction/Infection	2	Lecture and Interactive discussion and feedback
		Management of hospitalized patients	1	Lecture
		Trauma I Evaluation of patients with trauma	1	Lecture
		Trauma II Principles of management of mandibular fractures	1	Lecture
		Trauma III Condylar fractures + edentulous mandible + pediatric facial fractures	1	Lecture
		Second Semester		
		Dentoalveolar injuries	1	Lecture
		Trauma V Midface fractures I	1	Lecture
		Trauma VI Midface fractures II	1	Lecture
		Impacted Canine	1	Lecture
		(Integration Activity/ CBL/ Impacted canine) Orthodontics/Oral surgery/ Oral radiology	2	Lecture
The Patient	The Head and Neck / Temporomandibular Joint	Temporomandibular joint disorders I Anatomy + myofascial pain dysfunction	1	Lecture
		Temporomandibular joint disorders II Internal derangement + arthritis	1	Lecture
		Temporomandibular joint disorders III Dislocation, Subluxation, Ankylosis and Reconstruction -	1	Lecture

The Dentist	CCC: Oral and Maxillofacial Surgery	Integration case / CBL Trauma / TMJ	2	Lecture and Interactive discussion and feedback
		Role of surgery in orofacial pain and the ethical consideration of pain relief	1	Lecture
		Role of the dental profession in Sleep Apnea	1	Lecture
		Cleft Lip & Palate (diagnosis and management) & Principles of Orthognathic Surgery	1	Lecture
		Feedback and Revision	1	
Clinics			90	
Total				120

Type	Assessment Activities			Assessment timing (in Week no.)	Percentage of Total Assessment score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQS and short essay	1 st sem. W 11	5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQS and short essay	2 nd sem. W9	5%
	Requirement	<p>Mandatory clinical various oral surgery procedures</p> <p>While being marked, students will receive ample assistance and feedback on your clinical skills, practice management skills, communication skills and code of professional conduct.</p>	<p>Procedure -1: (x4) Assisted Uncomplicated Teeth Extraction</p> <p>Procedure -2: (x4) Assisted Complicated Teeth Extraction</p>	1 st sem. W14	Requisite for accepting MPES and entry clinical exam

	Minimal Procedural Experiences (MPEs)	Clinical-MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Competency Exam (CCE)	Procedure -1: 18 Unassisted extractions uncomplicated extractions	Throughout the year	20%
	In-Class Activity	Impaction/ Infection	CBL Integrated session	1 st sem. W9	Assessed in midyear & Final exam based on blueprint
		(Impacted canine) Orthodontics/Oral surgery/ Oral radiology	(Integration Activity/ CBL	2 nd sem. W5	Assessed in Final exam based on blueprint
		Trauma/ TMJ	(Integration Activity/ CBL	2 nd sem. W10	Assessed in Final exam based on blueprint
	Student Logbook	Keeping records of own experience	Assessment of each extraction case based on a rubric for MPE & CE	Throughout the year	Prerequisite to enter final CE
Final Assessments	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQ and short essay	1 st sem. W 14	10%
	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQ and short essay	2 nd sem. W14	30%
	Clinical Competency Exam (CCE)	Clinical Competency Exam* Your competence is dependent on your diagnostic and clinical skills as well as	CCE-1 for procedure: Tooth extractions Infection control, case presentation, LA , tooth extraction,	2 nd sem. upon submission of MPEs	15%

		practice management skills, communication skills and adherence to code of professional conduct.	post-operative care & instructions and medication prescription		
	Objective Structured Practical Examination (OSPE)	Clinical knowledge in oral surgery	<p>In OSPE students will be assessed on the ability to:</p> <ol style="list-style-type: none"> 1. Identify anatomical landmarks 2. Identify instruments and their uses 3. Choose appropriate local anesthetics, dosage and armamentarium 4. Deduce differential diagnosis 5. Identify surgical complications 	2 nd sem. W15	5%
	Objective Structured Clinical Examination (OSCE)	Test clinical and procedural skills	<p>OSCE Station 1*: Simulated Medical Emergency Management</p> <p>This station is designed to assess students' ability to:</p>	2 nd sem. W13	5%

		Systematically manage medical emergency case in the dental office	
		OSCE Station 2*: Odontogenic Infection	
		This station is designed to assess students' ability to:	
		<ol style="list-style-type: none"> 1. Manage the odontogenic infection step by step. 2. Perform simulated incision and drainage 	5%
		Your competence is assessed based on your ability to perform the task and your humane interaction with the simulated specimen (act like it's a real patient)	
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDD rules and regulations	(minus) 2%
Total			100%

PEDIATRIC DENTISTRY DEPARTMENT

(PDS)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Pediatric Dentistry	PDS 511	واس 511	4	1	0	3	4	CDS 333
Pediatric Dentistry Comprehensive Care Clinics	PDS 615	واس 615	4	1	0	3	4	PDS 511

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
5 th	Pediatric Dentistry	PDS	511
6 th	Pediatric Dentistry Comprehensive Care Clinics	PDS	615

Course name	Pediatric Dentistry
Course code	PDS 511
Faculty	Dentistry
Department / Division	Pediatric Dentistry
Course type	Required
Academic year (level)	Fifth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	CDS 333
Course format	Preclinical / Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and Understanding
1.1	Describe the arch length space analysis and the design, construction, and clinical application of space maintainers
1.2	Outline the normal child development and the most popular theories in psychological development of a child patient, as well as non-pharmacological behavior guidance techniques for children
1.3	Identify the causes and mechanism of dental caries in children, indications & contraindications of pulp therapies for primary and young permanent teeth, as well as anesthetic techniques in children and the potential complications of local anesthesia.
2	Skills
2.1	Differentiate between the anatomy of primary and permanent teeth with relation to cavity design and filling materials
2.2	Evaluate the child's social, diagnostic and clinical data, utilizing the Caries-Risk Assessment Tool (CAT) and gingival & periodontal health indices to evaluate oral health in pediatric patients
2.3	Perform comprehensive dental examination to develop quadrant-based treatment plans-for pediatric patients taking in consideration priority of treatment needed after effective communication with the patient guardian to obtain their consent, and referral if needed
2.4	Apply appropriate behavior guidance techniques (non-pharmacological) for children, and referring difficult -to-manage cases for sedation or GA, while differentiating between fear and anxiety in the child in simulated and real settings

2.5	Perform multiple clinical procedures pertaining to pediatric patients on primary and permanent teeth. including prevention techniques, administration of profound local anesthesia, different cavity preparations and restorations, extractions, and pulp therapy in primary teeth.
2.6	Implement patient- specific preventive strategies, including oral hygiene education, fluoride application, dietary counseling, and fissure sealants, per patients' needs , and delivering maintenance plan.
2.7	Utilize PubMed and Google to search, retrieve and critically evaluate current literature for assignment topics
3	Values
3.1	Implement the code of dental ethics and professionalism in their relationship with supervisors, patients and their guardians, peers and auxiliaries.
3.2	Complete patient's records, before and after treatment, using the pediatric dentistry forms on electronic health records system (R4 system)

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Patient	The Head & Neck - Dental Hard Tissue "in Health"	Introduction to Pediatric Dentistry Preclinical Course: Course Schedule, MPES, SCE, Study Material, Faculty Members, and Assessment Strategy	1	Lecture with interactive discussion
		Morphology of Primary Teeth: Timing, Sequence, Morphological Differences and Clinical Significance	1	Lecture with interactive discussion
The Dentist	DxTP for CCP - Child	Normal Occlusion in Children	1	Lecture with interactive discussion
		Comparative Analysis - Exercise		
	Preclinical Dentistry for the Child	Rubber Dam Application	1	Lecture with interactive discussion
		Principles of Cavity Preparation - Class I Cavity Preparation		
		Class II Cavity Preparation	1	Lecture with interactive discussion

	Basic Dental Skills - Scientific Inquiry and Research (Level 4)	Introduction to Literature Review	1	Lecture with interactive discussion
	Preclinical Dentistry for the Child	Class III Cavity Preparation	1	Lecture with interactive discussion
		Class V Cavity Preparation	2	Lecture with interactive discussion
		Celluloid Crown Restoration		
		Fissure Sealant		
		Preventive Resin Restoration		
		Stainless Steel Crown Restoration	1	Lecture with interactive discussion
		Pulp Therapy for Primary Teeth (Part 1)	1	Lecture with interactive discussion
	CCP - Dental Pain, Urgencies and Emergencies Module	Management of Acute Dental Trauma	Counted in OMR 511	Case-based learning
		Management of Acute Dental Trauma	Counted in OMR 511	Practical simulated session
	CCP - Interceptive Dentistry	Space Analysis	1	Lecture with interactive discussion
		Space Maintainer		
		Formulating proper treatment plan	1	Lecture with interactive discussion
	Dx TP for CCP – Child	Topic 1: Types, Chief Complaint & History Taking	1	Lecture with interactive discussion
		Topic 2: Clinical Examination & Data Recording		
		Dental Radiology for the Child Patient: Guidelines, Indication and Techniques-Part 1	1	Lecture with interactive discussion
	Dx TP for CCP – Child	Dental Radiology for the Child Patient: Guidelines, Indication and Techniques-Part 2	1	Case-based learning

	CCP – Child	Introduction to Clinical Course (Course Schedule, MPEs, SCE, Study Material, Faculty Members, Assessment Strategy)	1	Lecture with interactive discussion
		Local Anesthesia for the Child (Types, Techniques, & Complications)	1	Lecture with interactive discussion
The Patient	Behavioral Sciences	Psychological Development of the Child Patient & Psychological Management prospective (Theories of Development)	1	Lecture with interactive discussion
The Dentist	CCP – Behavioral Management “the Child”	Non-Pharmacological Behavior Management for the Child Patient in the Dental Environment (Part I)	1	Lecture with interactive discussion
		Non-Pharmacological Behavior Management for the Child Patient in the Dental Environment (Part II)	1	Lecture with interactive discussion
		Application of Behavioral Science Concepts in Clinical Dentistry for Pediatric Patients	1	Lecture & Role Play
	CCP-Child	Extraction of Primary Teeth	1	Lecture with interactive discussion
		Pulp Therapy for Young Permanent (Teeth Part 2)	1	Lecture with interactive discussion
		Caries in Children (Prevalence, Risk Factors, Management and Prevention)	1	Lecture with interactive discussion
	CCP-Preventive Dentistry “The Child”	Preventive Care in Pediatric Dentistry (Perinatal Counseling, Dental Home and Anticipatory Guidance)	1	Lecture with interactive discussion
		Preventive Care in Pediatric Dentistry (OHI and Diet Modification)	1	Lecture with interactive discussion

		Preventive Care in Pediatric Dentistry (Diet Evaluation – Tutorial)	1	Lecture with interactive discussion
		Fluoride I: Mechanism of Action, Supplements, Dose calculations	1	Case-based learning
		Fluoride II: Toxicity and Dental Fluorosis	1	Lecture with interactive discussion
	Preclinical Dentistry for the Child	Preclinical simulated sessions= First semester: 3 hours x15 weeks	45	Preclinical Practical Sessions
	CCP-Child	Clinical sessions- Second semester: 3 hours x15	45	Clinical Sessions
Total				120 hours

Type	Assessment Activities*			Assessment Timing (In Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Written assessment: MCQs	1 st sem. W 8	10%
	Quiz 2	Knowledge/ Cognitive Skills	Written assessment: MCQs & Short Essays	2 nd sem. W 8	10%
	Preclinical Requirements	Mandatory simulated pediatric dentistry procedures	Preclinical Procedures: To develop technical skills in pediatric dentistry procedures, students are expected to finish the requirements listed in the table below While being marked, student will receive ample assistance and feedback on their performance	Throughout the 1 st semester	5%
	Clinical Requirements	Mandatory clinical pediatric	Clinical Procedures: To develop technical skills in pediatric	Throughout the 2 nd semester	10 %

		dentistry procedures	dentistry procedures, students are expected to finish the requirements listed in the table below While being marked, student will receive ample assistance and feedback on their performance		
			Assisting	Throughout the 2 nd semester	2.5%
	Minimal Procedural Experiences (MPEs)	Simulated Clinical - MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Simulated Competency Exam (SCE)	Simulated Clinical - MPE for each of the following procedures: Procedure 1: (X1) Modified Class I cavity preparation Procedure 2: (X1) Class II cavity preparation, Band Matrix Application, Class II amalgam restoration Procedure 3: (X1) Celluloid strip crown	Throughout the year	The mark is included within the "Preclinical Requirement percentage"
		Clinical - MPE Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Clinical Competency Exam (CCE)	Clinical - MPE for Procedures: Procedure 1: (X1) Rubber dam application Procedure 2: (X1) Fissure sealant Procedure 3: (X1) Oral hygiene instruction Procedure 4: (X1) Prophylaxis and Topical Fluoride Application		The mark is included within the "Clinical Requirement percentage"

	SDL Assignment	<p>Scientific Research Activity</p> <p>This is a pass/fail assignment.</p> <p>If you got it right from the first time you will be awarded the full mark. If you didn't you will be denied the mark and you will repeat the assignment until you get it right.</p>	<p>Literature Review (Part I): Topic Review</p> <p>This is a group activity where students are divided into groups to do an evaluative report. The assignment has 2 parts;</p> <p>Part I: Literature review</p> <p>Part II: 5-min flash presentation.</p> <p>During this activity, students should be able;</p> <ul style="list-style-type: none"> • Work in small groups (ratio of 5/6:1) with their supervisor. • Form a research title and write a search question • Search the literature • Read a scientific paper • Extract important information from a scientific paper • Present the most important information gathered from the literature in a "flash presentation" (5 min presentation) <p>Each group will be assigned to a supervisor to guide and supervise them during the activity through multiple meetings.</p> <p>The assignment will be introduced by the end of the first semester (week 10) and you will be asked to submit the work by the end of the second semester (week 25 and 26).</p>	Based on WTT	2.5%
	Presentation	Research Skills - Oral Presentation Skills	<p>Literature Review (Part II): Flash Presentation</p> <p>This activity is part of the assignment (literature review)</p>	2 nd sem. W 13	Part of the total grade (2.5%) set for the whole literature

Final Assessments			During this activity, students should be able; - Present the most important information gathered from the literature in a “flash presentation” (5 min presentation)		review assignment.
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
	Midyear Exam	Knowledge/ Cognitive Skills	Written assessment: MCQs	1 st sem. W16	15%
	Final Year Exam	Knowledge/ Cognitive Skills	Written assessment: MCQs	2 nd sem. W16	15%
	Simulated Competency Exam (SCE)	Simulated Competency Exam*	SCE for Procedures*: Procedure 1: (X1) Modified Class I cavity preparation Procedure 2: (X1) Class II cavity preparation, Band Matrix Application, Class II amalgam restoration Procedure 3: (X1) Celluloid strip crown	1 st sem.	7.5%
	Clinical Competency Exam (SCE)	Clinical Competency Exam*	CCE for Procedures*: Procedure 1: (X1) Rubber dam application Procedure 2: (X1) Fissure sealant Procedure 3: (X1) Oral hygiene instruction Procedure 4: (X1) Prophylaxis and Topical Fluoride Application	2 nd sem.	12.5%

			<p>OSPE is designed to assess students' on their ability to interpret data provided (radiographs, pictures) to:</p> <p>1- Differentiate between primary and permanent teeth</p> <p>2- Identify band & loop space maintainer</p> <p>3- Identify the components of comprehensive dental examination of a child patient.</p> <p>4- Recognize anesthetic techniques recommended in children and the potential complications of local anesthesia.</p> <p>5-Describe the normal child development and the behavior guidance techniques for children.</p> <p>6- Identify the types of dental caries in children</p> <p>7- Identify different forms of cavity preparation and restorations of primary dentition</p> <p>8- Recognize different pulp therapies for primary and young permanent teeth, and the indications and contraindications of each treatment.</p> <p>9-Identify the main preventive techniques including oral hygiene measures, fluoride, diet evaluation and fissure sealants.</p> <p>10-Assess the level of caries risk for a patient through diet evaluation calculation</p> <p>11-Assess oral health using OH scoring Green and Vermillion</p>		
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and outcome of Pediatric Dentistry		2 nd sem. W16	5%

	Objective Structured Clinical Examination (OSCE)	Test behavioral management and communication skills with the patient* This OSCE station is pass-fail assessment of competence	OSCE stations are designed to assess student communication skills and ability to integrate behavioral component* for dealing with diverse patient population (expect different social behavioral component and/or neglect and abuse)	2 nd sem. W6	5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name		Pediatric Dentistry Comprehensive Care Clinics	
Course code		PDS 615	
Faculty		Dentistry	
Department / Division		Pediatric Dentistry	
Course type		Required	
Academic year (level)		Sixth Year	
Credit hours		4	
Contact hours / week		4 Hours/Week	
Proposed semester (s)		Ful year	
Prerequisite		PDS 511	
Course format		Clinical course	
Course Learning Outcomes (CLOs)			
1	Knowledge and Understanding		
1.1	Identify the types, signs, and symptoms of child abuse, developmental and acquired dental anomalies, oral pathologies, and trauma in children, including methods for examination, diagnosis, and management.		

1.2	Recognize the indications and contraindications for space maintainers and pharmacological behavior management techniques, including conscious sedation, while understanding the unique features and medical considerations of children with special health care needs.
2	Skills
2.1	Distinguish signs and symptoms of child abuse and neglect, and understand the legal process for reporting these cases.
2.2	Summarize systemic diseases and their effects on dental care, as well as oral habits and their impact on occlusion, while developing comprehensive diagnoses, management strategies, and treatment plans with guardian consent.
2.3	Select and handle restorative materials appropriately, and perform preventive, pulp-preserving procedures and extractions of primary teeth to maintain oral health in pediatric patients.
2.4	Plan and interpret dietary evaluations to assess risk and provide dietary recommendations for pediatric patients.
2.5	Develop pain management strategies, including formulating prescriptions, administering profound local anesthesia, and selecting appropriate space maintainers based on patient needs.
2.6	Write formal referral letters for medical or dental emergencies and complex cases beyond the scope of general dentistry, including those requiring sedation, general anesthesia, or orthodontic care.
3	Values
3.1	Implement the code of dental ethics and professionalism in relationships with supervisors, patients and their guardians, peers, and auxiliaries, while demonstrating teamwork and collaboration in clinical settings.
3.2	Complete patient's records, before and after treatment, using the pediatric dentistry forms on electronic health records system (R4 system)

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	CCC for the Child	Introduction to the course	1	Lecture
		Clinical Orientation	1	Lecture
		Diagnosis and Treatment Review	1	Lecture

		Introduction to Case Presentations	1	Lecture
	CCC: Dental Urgencies and Emergencies	Medical Emergencies and Prescription Writing	1	Lecture
	CCC for the Child	Space Maintainer 1	1	Lecture
		Space Maintainer 2	1	PBL
	CCC: Patient Education, Behavioral Management, and Preventive Dentistry	Advanced Behavior guidance in Pediatric Dentistry	1	Lecture
		New Trends in Restorative Dentistry	1	Lecture
	Comprehensive Clinical Care, Clinics of the Child, Adult and Geriatric Patient	Gingival and periodontal disease	1	Lecture
		Dental Anomalies 1	1	Lecture
		Dental Anomalies 2	1	PBL
	CCC: Special Care and Management of Special Need "The Determined Ones	Management of children with special health care needs 1	1	Interactive session
		Management of children with special health care needs II	1	Interactive session
	CCC for the Child CCC for the Child	Child abuse and neglect	1	Lecture
		Management of Traumatic Injuries I	1	Lecture
		Management of Traumatic Injuries II	1	Lecture

		Oral Pathological Conditions in Children	1	Lecture
		Oral habits presentations 1	1	Student presentation
		Oral habits presentations 2	1	Student presentation
		Case Presentations 1	1	Student presentation
		Case Presentations 2	1	Student presentation
		Case Presentations 3	1	Student presentation
		Case Presentations 4	1	Student presentation
		CCC clinics	Semester 1 12wx3h =36h 3w x4h =12h Total 48 h	
			Semester 2 12wx3h =36h 3w x4h =12h Total 48 h	

	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
Continuous Assessments	Clinical Requirements	Mandatory clinical pediatric dentistry procedures	Clinical Procedures: To develop technical skills in pediatric dentistry procedures, students are expected to finish the requirements listed in the table below While being marked, student will receive ample assistance and feedback on their performance	Throughout the year	20%
			Assisting		2.5%
	Minimal Procedural Experiences (MPEs)	Clinical - MPE Each procedure will be repeated until performed independently, and competently. After	Clinical – MPE for Procedures*: Procedure 1: (X1) Examination and Treatment Planning Procedure 2: (X1) Diet analysis Procedure 3:	Throughout the year	The mark is included within the “Clinical Requirement percentage”

		<p>which, student will be eligible to enter Clinical Competency Exam (CCE)</p>	<p>(X1) Local Anesthesia</p> <p>Procedure 4: (X1) Pulpotomy</p> <p>Procedure 5: (X1) Stainless steel crown</p> <p>Procedure 6: (X1) Extraction</p>		
	Clinical Cases Evaluation		<p>CCC Finished Case</p> <p>Each student is required to finish at least one CCC case during the academic year to be eligible to enter the final exam. Finishing a case include doing all of the followings:</p> <ol style="list-style-type: none"> 1. Examination and Treatment plan 2. Preventive procedures (prophy F, OHI, Diet Evaluation, fissure 	Throughout the year	2.5%

			sealants, PRR), 3. Restorati ve procedur es 4. Pulp therapy 5. Space manage ment 6. Orthodo ntic consultat ion 7. Referral if needed 8. Follow up and maintena nce plan. Students can finish either one long case or two short case or as discussed in the course policies section.		
	In-class Activity	Critical Thinking Group activity Students will work in team and learn how	Types of Space Maintainers By the end of the activity the students should be able to choose the appropriate type of space maintainer for		1%

		to peer and self-assess themselves and give constructive feedback	different cases through brainstorming and discussions with their teammates.		
			Dental Trauma By the end of the lecture the students should be able to choose the appropriate management for different dental trauma cases through discussions with their teammates.		
			Dental Anomalies Cases By the end of the activity the students should be able to diagnose different dental anomalies and choose the appropriate management for each given case scenario through discussions with their teammates.		
			Dental Anomalies The activity is designed to		

			designed to assess students' knowledge about important information regarding dental anomalies. Through this activity, students will peer assess as well as self-assess themselves.		
	Presentation	Diagnosis & Treatment Plan Skills - Oral Presentation Skills	Case Presentation – Group project Students are expected to assemble a case presentation that contains patient's basic information, medical and dental histories, extraoral and intraoral examination, radiographic examination, photographs, treatment plan, follow up plan. Students are also expected to be prepared to answer questions from faculty and	2 nd sem. W 7-10	2%

			colleagues during the presentation.		
		Research Skills - Oral Presentation Skills	Oral Habit Presentation – Group project The students are expected to study the oral habits, search for updates regarding diagnosis and management of oral habits and assemble a PowerPoint presentation. Students are also expected to be prepared to answer questions regarding the topic.	2 nd sem. W5-6	2%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	10%
Final Assessments	Final Year Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem. W16	25%

			CCE for Procedures*: Procedure 1: (X1) Examination and Treatment Planning Procedure 2: (X1) Diet analysis Procedure 3: (X1) Local Anesthesia Procedure 4: Restoration (PRR, Class I, Class III, Class V, Class II, Class I with pit/Compound class I or strip crown) Procedure 5: (X1) Pulpotomy Procedure 6: (X1) Stainless steel crown Procedure 7: (X1) Extraction Procedure 8: (X1) Referral Procedure 9:		
	Clinical Competency Exam (CCE)	Clinical Competency Exam*		Throughout the year	10%

			(X1) Space Analysis		
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and outcome of Pediatric Dentistry	<p>Midyear OSPE is designed to assess students' on their ability to identify instruments, materials, scenarios, or procedures.</p> <p>Final year OSPE is designed to assess students' on their ability to assess, diagnose and interpret data of clinical cases.</p>	<p>1st sem. W16</p> <p>2nd sem. W16</p>	<p>10%</p> <p>10%</p>
	Objective Structured Clinical Examination (OSCE)	Behavioral management and communication skills*	OSCE stations are designed to assess student communication skills and ability to integrate behavioral component* for managing diverse patient population (expect different social behavioral component	2 nd sem. W11	5%

			and/or neglect and abuse).		
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUF D rules and regulations			(minus) 2%
Total					100%

ORTHODONTICS DEPARTMENT

(PDS)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Orthodontics	PDS 522	واس 522	2	1	2	0	3	OBCS 477
Orthodontics Comprehensive Care Clinics	PDS 626	واس 626	4	1	0	3	4	PDS 522

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
5 th	Orthodontics	PDS	522
6 th	Orthodontics Comprehensive Care Clinics	PDS	626

Course name	Orthodontics
Course code	PDS 522
Faculty	Dentistry
Department / Division	Orthodontics
Course type	Required
Academic year (level)	Fifth Year
Credit hours	2
Contact hours / week	3 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	OBCS 477
Course format	Preclinical course
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Recognize normal dental development (primary and permanent teeth eruption) stages, as well as normal facial development and growth.
1.2	Recall the bone biology and its role in orthodontic tooth movement, as well as the effect of drugs and diseases on bone biology and orthodontic tooth movement
1.3	Identify the etiology for orthodontic problems, including malocclusion due to thumb sucking, tongue thrusting or respiratory disorders (adenoids, mouth breathing etc...)

1.4	Recognize dental and skeletal orthodontic problems and the rationale of orthodontic treatment in general, with prediction of benefits and/or risks of selected cases.
2	Skills
2.1	Assess the diagnostic records for patients with any type of malocclusion using the major principles and techniques of patient examination, space analysis, and OPG interpretation, with analysis of the findings to diagnose dental and skeletal orthodontic problems, as well as facial abnormalities and deviation from the norm
2.2	Appraise the patient need for treatment (interceptive/growth modification/comprehensive) and referral, by distinguishing abnormal growth pattern and the need for growth modification while applying the concept of benefit risk for a patient with a temporomandibular joint problem seeking orthodontic treatment
2.3	Conduct a space analysis
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public, and comply with the institutional professional code of conduct.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	Photography in Dentistry	1	Lecture with interactive discussion
	DxTP for CCP - Occlusal and Orthodontic Assessment	Introduction to Orthodontics Course	1	Lecture with interactive discussion
		The Rationale for Orthodontic Treatment		
		Normal Dental Development (Teeth Eruption)	1	Lecture with interactive discussion
		Classification of Malocclusion	1	Lecture with interactive discussion
		Inter-Arch Problems: Class II Malocclusion	1	Lecture with interactive discussion
		Inter-Arch Problems: Class III Malocclusion	1	Lecture with interactive discussion
		Permanent Teeth Space Analysis	1	Lecture with interactive discussion

		Inter-Arch Problems: Transverse Problems (Crossbite)	1	Lecture with interactive discussion
		Inter-Arch Problems: Vertical Problems, Open and Deep Bites	1	Lecture with interactive discussion
		Intra-Arch Problems: Class I and Dental Problems - 1	1	Lecture with interactive discussion
		Intra-Arch Problems: Class I and Dental Problems – 2 (Eruption)	1	Lecture with interactive discussion
		Intra-Arch Problems: Class I and Dental Problems – 3 (Crowding)	1	Lecture with interactive discussion
		Canine Impaction	1	Lecture with interactive discussion
		Etiology of Malocclusion	1	Lecture with interactive discussion
		Craniofacial Growth & Development: Biological Age and Best Time for Orthodontic Intervention (part 1)	1	Lecture with interactive discussion
		Craniofacial Growth & Development: Biological Age and Best Time for Orthodontic Intervention (part 2)	1	Lecture with interactive discussion
		Cephalometric Analysis	1	Lecture with interactive discussion
		Orthodontic Patient Assessment	1	Lecture with interactive discussion
	CCP - Interceptive Dentistry	Interceptive Orthodontics	1	Lecture with interactive discussion
		Impact of Orthodontic Treatment on Quality of Life	1	Lecture with interactive discussion
		OHI for Orthodontic Patient		
		Orthodontic Treatment and Biology of Tooth Movement	1	Lecture with interactive discussion

The Dentist	DxTP for CCP - Adult, Geriatric and Special Need	Basic Dental Skills: Photography Workshop	3	Clinical Demonstration (Hands-on)
Humanism	Feedback & Conflict Resolution	Tutorial	3	Interactive discussion and feedback
		Revision and Feedback (divided between semesters 1 and 2)	3	Interactive discussion and feedback
The Dentist	DxTP for CCP - Occlusal and Orthodontic Assessment	Practical sessions (1 st and 2 nd semesters) Sem 1: 2 hours x 15 weeks Sem 2: 2 hours x 15 weeks	60	Practical sessions
Total				90

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Written assessment: MCQs	1 st sem. W11	5%
	Simulated Clinical Requirements	Mandatory requirements While being marked, student will receive ample assistance and feedback	Requirement 1: (X6 Malocclusion Classification) Classification of different malocclusions	Throughout the year	2%
			Requirement 2: (X2 Permanent dentition space analysis) Space analysis for permanent dentition		3%

		<p>Requirement 3: (X15 Diagnostic Cases) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients</p> <p>This activity is designed to track the students the followings: 1. Analyze the finding of diagnostic records for patients with a variety of malocclusions. 2. Write a problem list.</p> <p>Extra Requirement: (X2 for each session Simulated orthodontic patient assessment)</p>		30%
	Minimal Procedural Experiences (MPes)	<p>Simulated Clinical-MPE</p> <p>Each procedure will be repeated until performed independently , and competently. After which, student will be eligible to enter</p>	<p>Simulated Clinical-MPE: (X2 Malocclusion Classification) Classification of different malocclusions</p> <p>Simulated Clinical-MPE: (X1 Permanent dentition space analysis) Space analysis for permanent dentition</p>	

		Competency Exams Note: the MPE are counted part of the requirements	Simulated Clinical-MPE: (X4 Diagnostic Cases) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients During the activity, the students will be assessed on their ability to: 1. Analyze the finding of diagnostic records for patients with a variety of malocclusions. 2. Write a problem list. 3. Decide the proper treatment timing and management.		Counted in the Requirement section
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
	Midyear Exam	Knowledge/Cognitive Skills	Written assessment: MCQs	1 st sem. W15	15%
Final Assessments	Final Exam	Knowledge/Cognitive Skills	Written assessment: MCQs	1 st sem. W15	30%

	Simulated Clinical Competency Exam (SCE)	Simulated Clinical Competency Exam*	<p>SCE for the following Procedures: (X1 Permanent dentition space analysis) Space analysis for permanent dentition*</p> <p>SCE for the following Procedures: (X1 Simulated orthodontic patient assessment) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients *</p> <p>During the activity, the students will be assessed on their ability to:</p> <p>4. Analyze the finding of diagnostic records for patients with a variety of malocclusions.</p> <p>5. Write a problem list.</p> <p>6. Decide the proper treatment timing and management.</p>	After finishing the required MPEs	<p>5%</p> <p>10%</p>
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUD rules and regulations			(minus) 2%

Total	100%
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Course name	Orthodontics Comprehensive Care Clinics
Course code	PDS 626
Faculty	Dentistry
Department / Division	Orthodontics
Course type	Required
Academic year (level)	Sixth Year
Credit hours	4
Contact hours / week	4 Hours/Week
Proposed semester (s)	Ful year
Prerequisite	PDS 522
Course format	Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and Understanding
1.1	Identify normal facial forms and any deviations from normal.
1.2	Recognise the fundamental principles of orthodontic treatment for common occlusal and oro-facial abnormalities, including those related to the management of interceptive and adjunctive orthodontic therapies as well as considerations for patients with cleft lip and/or palate.
1.3	Explain the basic biomechanical sciences related to contemporary orthodontic treatment appliances, procedures, and techniques, as well as the common retention orthodontic protocols.
1.4	Explain the design, placement, and adjustment of basic active removable appliances intended to correct simple occlusal discrepancies.
1.5	Identify adverse oral habits that may exacerbate malocclusion, and prevent their consequences through patient education, training and appliance therapy, as needed.
1.6	Recognize the impacts, challenges, and outcomes of orthodontic treatment on dental and periodontal health.
2	Skills

2.1	Integrate and apply the knowledge acquired to clinical scenarios, interpreting it effectively in practice.
2.2	Assess the chief complaint of the patient (child, adolescent, and adult), obtain the relevant history and records to comprehensively evaluate malocclusion problems.
2.3	Analyze critically the data obtained to diagnose dental and skeletal orthodontic problems, as well as facial abnormalities and the deviation from the norm.
2.4	Evaluate the patient's need for orthodontic treatment and treatment options (interceptive/growth modification/adjunctive/comprehensive) and referral needs.
2.5	Communicate effectively, verbally and in writing, with colleagues, instructors, and patients in addition to patient education.
3	Values
3.1	Exhibit professionalism and respect towards colleagues and instructors, while also demonstrating effective teamwork.
3.2	Demonstrate effective self assessment and time management skills.
3.3	Document accurate patient records using electronic health record system (R4 system).

List of Topics

Track	Theme/ Module	Topic / Lecture Title	Contact Hours	Teaching Strategy
The Dentist	CCC: Diagnosis, Treatment Planning, Clinical Reasoning, and Decision Making - Level 3	Orientation and introduction to the course	4	Lecture
		Orthodontic Triage	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Eruption problems	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Vertical problems and Oral Habits	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Diagnostic case Exam # 1 (2 cases)	4	Consultation & Screening

		Occlusal problems	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Canine Impaction & Badly decayed First molars	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Space Related Problems	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Diagnostic case Exam # 2 (2 cases)	4	Consultation & Screening
		Basic management of Class II malocclusions	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Remediation Diagnostic case Exam # 1 (2 cases)	4	Consultation & Screening
		Basic management of Class III malocclusions	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Diagnostic case Exam # 3 (2 cases)	4	Consultation & Screening
		Introduction to adjunctive orthodontics	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Interdisciplinary & Adjunctive Treatments (Ortho-Resto problem)	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Interdisciplinary & Adjunctive Treatments	4	Lecture & Diagnostic cases Training (CBL), followed

		(Ortho-Prosthodontic problem)		by Consultation & Screening
		Interdisciplinary & Adjunctive Treatment (Ortho-Perio problem)	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Diagnostic case Exam # 4 (2 cases)	4	Consultation & Screening
		Fixed Orthodontic Appliances	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Removable Appliances	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Remediation Diagnostic case Exam # 2 (2 cases)	4	Consultation & Screening
		Diagnostic case Exam # 5 (2 cases)	4	Consultation & Screening
		Retention in orthodontics	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Orthodontic Emergencies	4	Lecture & Diagnostic cases Training (CBL), followed by Consultation & Screening
		Diagnostic case Exam # 6 (2 cases)	4	Consultation & Screening
		Craniofacial Anomalies	4	Lecture & Diagnostic cases Training (CBL), followed by Remediation #3 (2 cases)
		Remediation Diagnostic case Exam # 3 (2 cases)	4	Consultation & Screening

		Revision Session at the end of each semester	3 sessions x4 = 12	Consultation & Screening
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	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W8	5%
	Quiz 2	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W8	5%
	In-Class Activity	Case-based learning (CBL)	<p>Diagnostic Cases Training (X32 {2 for each session}) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients</p> <p>This activity is designed to teach the students the followings:</p> <ol style="list-style-type: none"> 1. Diagnose patients with orthodontic problems that are explained theoretically in the lectures 2. Recognize critical orthodontic problems 3. Know general management of orthodontic problems 4. Know where and when to refer cases with orthodontic problems 5. Improve two-way communication skills through large group 6. Discussion 7. How to do self-evaluation 		Self-assessment & Formative Feedback

	Simulated Clinical Requirements	Mandatory requirements While being marked, student will receive ample assistance and feedback	<p>Requirement 1: (X12 {2 for each session} Diagnostic Cases) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients</p> <p>This activity is designed to assess the students in the followings:</p> <ol style="list-style-type: none"> 1. Diagnose patients with orthodontic problems 2. Recognize critical orthodontic problems 3. Know general management of orthodontic problems 4. Know where and when to refer cases with orthodontic problems 5. Improve two-way communication skills through large group 6. Discussion <p>X3 Extra Remediation cases will be given to remake any missing requirements or remediate the grade</p>	Throughout the year	24%
			<p>Requirement 2: (X6 Screening) Orthodontic clinical examination and data gathering for screening Adult Patients</p> <p>Students are divided into groups of 3 in each group. The activity is designed that students will role play as either examiner or patient and perform clinical orthodontic assessment and then communicate with the supervisor to present the findings.</p>		3%

			<p>Requirement 3: (X4 Consultation Cases) Comprehensive clinical examination and data gathering, Full orthodontic diagnostic summary and Problem list, with Initial treatment planning and referral / consultation letters for Child and Adult Patients During this activity, students are required to present 4 of their CCC cases (2 adult & 2 Child) and write an orthodontic consultation & referral letters.</p> <p>For each case, students should be able:</p> <ol style="list-style-type: none"> 1. Present full medical, behavioral, social, dental and family history 2. Present extra- and intra-oral clinical findings 3. Write diagnostic summary and problem list. 4. Write a referral/ consultation letters 5. Write Initial treatment planning 6. Communicate effectively with the patient and educate them with their orthodontic problems and treatment needs (role play) 7. Communicate effectively with Dental team (SBAR) 		3%
	Minimal Procedural Experiences (MPEs)	Simulated Clinical-MPE Each procedure will be repeated	Simulated Clinical-MPE (X6 Diagnostic Cases) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem	Throug hout the year	The grade is included within the "Diagnostic Cases Requirement " percentage

Final Assessments		until performed independently, and competently. After which, student will be eligible to enter Competency Exams	list, with Initial treatment planning for Child and Adult Patients During the activity, the students will be assessed on their ability to: 1. Analyze the finding of diagnostic records for patients with a variety of malocclusions. 2. Decide the proper treatment timing and management.		
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPES
	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	15%
	Final Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	25%
	Simulated Clinical Competency Exam (SCE)	Simulated Clinical Competency Exam* (this exam will be pass-fail assessment of competence)	SCE for the following; (X2 Simulated orthodontic patient assessment) Data analysis of cases with a variety of orthodontic problems, orthodontic diagnostic summary and problem list, with Initial treatment planning for Child and Adult Patients* Students will be assessed on their ability to: 1. Analyze the finding of diagnostic records for patients with a variety of malocclusions. 2. Write a problem list. 3. Decide the proper treatment	After finishing the required MPES	5%

			timing and management.		
	Objective Structured Practical Examination (OSPE)	Clinical knowledge and problem-solving skills in Orthodontics	OSPE is designed to assess students ability to: 1. Identification of devices and appliances 2. Identification of malocclusion problems	1 st sem. W 16	5%
				2 nd sem. W 16	10%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDD rules and regulations			(minus) 2%
Total					100%

DENTAL PUBLIC HEALTH DEPARTMENT

(PDS)

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Professional Ethics & Law	PDS 433	واس 433	2	2	0	0	2	COMM 101
Biostatistics & Methods of Scientific Research	PDS 434	واس 434	2	2	0	0	2	CPIT 100
Practice Management	PDS 435	واس 435	2	2	0	0	2	COMM 101
Community Dental Practice	PDS 633	واس 633	4	1	3	0	4	PDS 434

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code
4 th	Professional Ethics & Law	PDS	433
4 th	Biostatistics & Methods of Scientific Research	PDS	434
4 th	Practice Management	PDS	435
6 th	Community Dental Practice	PDS	633

Course name	Professional Ethics & Law
Course code	PDS 333
Program	Bachelor of Dental Medicine and Surgery
Faculty	Dentistry
Department / Division	Dental Public Health
Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	2 Hours/ Week
Proposed semester (s)	Second Semester
Prerequisite	OBI0 212
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	

1	Knowledge and understanding
1.1	Identify Islamic ethical values and behavioral principles relevant to scientific research and the provision of dental care to individual patients and populations
1.2	Recall the professional responsibility of a dentist and his/her role in governmental and private healthcare sectors in Saudi Arabia
1.3	Recognize legal obligations and consequences related to professional ethics in dentistry in Saudi Arabia and the USA
2	Skills
2.1	Apply effective and ethical decision making to provide patient-centered care that is individualized, compatible with contemporary therapy, and adherent with best clinical practice guidelines.
2.2	Appraise ethical issues and dilemmas in research and clinical contexts including informed consent for research participation and patient care.
2.3	Demonstrate effective communication, both verbally and in writing.
2.4	Refer to professional colleagues when indicated.
3	Values
3.1	Illustrate humane and compassionate care to all patients and respect professional boundaries complying with Islamic, institutional, and international moral values.
3.2	Display appropriate professional behavior towards staff and peers.
3.3	Seek continuing professional development when needed.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Humanism	Ethics & Law	Introduction to Ethics and Professionalism	1	Lecture
		Dentist-Patient Relationship and Social Responsibility	1	Lecture
		Confidentiality and Patient Consent	1	Lecture
		American Dental Association (ADA) and Islamic Principles of Ethics and Code of Professional Conduct	2	Interactive session

	Feedback and Conflict Resolution	Online Tutorial 1 (Blackboard)	2	Lecture
	Ethics & Law	Research Ethics	1	Lecture
		The Intersection of Ethics and Law Including Penalties in the Saudi and U.S. Systems	2	Interactive session
	Feedback and Conflict Resolution	Online Tutorial 2(Blackboard)	2	Lecture
	Ethics & Law	Ethical Decision Making	1	Lecture
		Ethical Blinding	1	Lecture
	Feedback & Conflict Resolution	Online Tutorial 3(Blackboard)	2	Lecture
		Revision & Feedback	2+2	Interactive session
	Ethics & Law	Ethical Dilemma 1	2	Interactive session
		Ethical Dilemma 2	2	Interactive session
	Feedback and Conflict Resolution	Online Tutorial 4 (Blackboard)	2	Lecture
	Ethics & Law	Patient's progress notes audits and peer assessment	2	Interactive session
		Tutorial	2	
Total			30	

	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
	Assignments	Application of Ethical Principles	Patient's progress notes audits Peer Assessment in Clinic Students will assess their 5th or 6th year colleagues for written progress notes, infection control, and KAUFU professional attire (1 assignment) Student write a brief reflection on the violation and its ethical angel	2nd sem W6	10%

In-Class Activity	Application of Ethical Principles	<p>Analysis of a Research Ethics Case Case Study (1 assignment)</p> <p>Description: Each student is asked to read the research case methods and identify ethical violations in research, based on what has been given in the lecture. Then class discussion of the in-class activity takes place.</p> <p>Assessment: is based on the submission of student's individual answers and on how many flaws in the case they have recognized</p>	2nd sem W2	2.5%
		<p>Patient's consent form appraisal Critiquing informed consent (1 assignment)</p> <p>Description: Students are divided in groups and asked to appraise a patient's consent form. The appraisal requires recognizing flaws in the form and writing recommendations to improve the form based on what they have learned in the lecture. Representatives is randomly picked from each group then present the flaws and recommendations to facilitate discussion</p> <p>Assessment: is based on student's involvement in group work and it's secured by random pick from each group to present. Submission of the rubric with the ethical violations identified secures the marks for students</p>	2nd sem W1	5%
	Application of Ethical Principles	<p>Video Clip Appraisal and Role Play (1 assignment)</p> <p>Student are divided into groups and asked to appraise a video clip to identify ethical principles' violations from the perspectives of different actors in the clip</p>	2nd sem W2	2.5%

			Assessment: is based on student’s involvement in group work and its secured by random pick from each group to present. Submission of the rubric with the ethical violations identified secures the marks for students		
		Application of Ethical Principles	Ethical Dilemma 1 Solving an ethical dilemma based on ethical decision-making model and rubric (1 assignment)	2nd sem W4	5%
		Application of Ethical Principles	Ethical Dilemma 2 Solving an ethical dilemma based on ethical decision-making model and rubric (1 assignment)	2nd sem W5	5%
Threa ded Asses sment	Threaded with OMR 511	Threaded Application of Ethical Principles	Ethical Dilemma 3 Solving an ethical dilemma based on ethical decision-making model and rubric (1 assignment)	5 th AY	Mark assigned in OMR 511
	Threaded with CCC 600		Ethical Dilemma 4 Solving an ethical dilemma based on ethical decision-making model and rubric (1 assignment)	6 th AY	Mark assigned in CCC 600
	Threaded with PDS 633		Ottawa Charter’s Health Promotion Action: Does health promotion need a code of ethics?	6 th AY	Mark assigned in PDS 633
Final Assess ments	Midyear Exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs, Short Answers, and Structured Essay	2nd sem W3	30%
	Final Year Exam	Knowledge/ Cognitive Skills	Paper 1: MCQs, Short Answers, and Structured Essay	2nd sem W7	40%
			Paper 2: Short answers Code of Professional Conduct*		
			This is a pass/fail paper		
Total					100%

Course name	Biostatistics & Methods of Scientific Research
Course code	PDS 434
Program	Bachelor of Dental Medicine and Surgery
Faculty	Dentistry
Department / Division	Dental Public Health
Course type	Required
Academic year (level)	Fourth Year
Credit hours	2
Contact hours / week	2 Hours/ Week
Proposed semester (s)	First Semester
Prerequisite	CPIT 110
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Identify indications of different descriptive and analytical measures, different study designs and sampling techniques.
1.2	Recognize statistics commonly used in the analysis of clinical data
2	Skills
2.1	Distinguish different study designs and statistical methods when reading an article
2.2	Interpret statistics commonly used in the analysis of clinical data and their implications for patient management
2.3	Assess relevant information, weighing it against the extent of knowledge and ideas, identifying problems and formulating questions clearly and precisely to design studies for different research scenarios and questions.
2.4	Perform basic descriptive statistical analysis
2.5	Use the web to search for relevant information
3	Values

3.1	Demonstrate altruism, honesty, integrity and respect with peers, colleagues, supervisors, and the public; and comply with the institutional professional code of conducts.
3.2	Develop self-assessment, reflection, providing and receiving constructive criticism; as well as understanding their own learning needs and seeking continuous professional development

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Basic Dental Skills / Scientific Inquiry and Research (Level 3)	Introduction to the Course	1	Lecture
		Overview of Scientific Research		
		Introduction to Epidemiology	1	Lecture
		Experimental Studies	2	Interactive Session
		Observational Studies: Cohort & Case-Control	2	Interactive Session
		Observational Study: Cross-Sectional	2	Lecture
		Review of Study Designs	2	Lecture
		Components of an Article	2	Lecture
Humanism	Feedback & Conflict Resolution	Feedback	1	Interactive session
The Dentist	Basic Dental Skills / Scientific Inquiry and Research (Level 3)	Study Design Application	2	Interactive session
		Introduction to Biostatistics and Data Types	1	Interactive session
		Sampling Techniques	1	Lecture
		Presentation of Tabular Data	1	Lecture

		Presentation of Graphical Data	1	Lecture
		Hypothesis Testing	2	Lecture
		Measures of Central Tendency & Dispersion	2	Lecture
		Correlation and Chi-square test	2	Lecture and Interactive session
Humanism	Feedback & Conflict Resolution	Feedback	1	Interactive session
The Dentist	Basic Dental Skills / Scientific Inquiry and Research (Level 3)	t-test and ANOVA	2	Lecture
Humanism	Feedback and Conflict Resolution	Revision	2	Interactive session
Total			30	

	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
Continu ous Assessm ents	Quiz - 1	Knowledge /Cognitive Skills	Paper-Based: Short-Notes Questions	1 st sem. W7	8%
	Quiz - 2	Knowledge /Cognitive Skills	Paper-Based: Short-Notes Questions	1 st sem. W10	10%
	In-Class Activity	Componen ts of Research Article	<p>Components of Research Article</p> <p>Pre and post- assessment of student knowledge with feedback</p> <p>Have your smartphones, tablets or computer ready and connected to the internet</p> <p>Pre- lecture test: Students will answer questions using online survey</p> <p>Students will be able to know their scores at the end of the test</p>	1 st sem. Based on WTT	2% For participation

			Post- lecture test: Students will fill out the same questionnaire again and see their score and compare them with the pre-test one.		
	Problem Solving	Application of Research Theory All Exercise Sheets will be marked, and you will receive feedback	<p>Activity 1: Experimental studies</p> <p>Description: Students are divided into groups and are asked to design an RCT given a scenario and answer specific questions</p> <p>Activity 2: Observational studies (cohort and case control)</p> <p>Description: Students work in groups to design a cohort and a case control study to answer certain research questions</p> <p>Activity 3: Cross-Sectional Studies</p> <p>Description: Students work in groups to design a cross sectional study to answer a certain research question</p> <p>Activity 4: Introduction to biostatistics/data types/sampling techniques</p> <p>Description: Students are given a set of variables and are asked to classify them according to variables type</p> <p>Activity 5: Tabular Presentation of Data</p> <p>Description: Students are presented with frequency and 2x2 tables, and they are asked to interpret them and answer questions about them.</p> <p>Activity 6: Graphical Presentation of Data</p> <p>Description: Students are asked to interpret and answer questions about given graphs.</p>	1 st sem. Based on WTT	40%

			Activity 7: Measures of Central Tendency and Variation Description: Students are asked to work in groups to discuss and solve some problems to decide the appropriate measure of central tendency given a data set Calculate mean, mode and median using a hand calculator Calculate the range, variance and standard deviation using a hand calculator.		
			Activity 8: Introduction to Analytical Statistics Description: Students are asked to work in groups to discuss and solve problems to recognize basic analytical tests and their indications		
	Final Year Exam	Knowledge /Cognitive Skills	Paper-Based: MCQs	1 st sem. W16	40%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUFD rules and regulations			(minus) 2%
Total					100%

Course name	Practice Management
Course code	PDS 435
Program	Bachelor of Dental Medicine and Surgery
Faculty	Dentistry
Department / Division	Dental Public Health
Course type	Required
Academic year (level)	Fourth Year
Credit hours	2
Contact hours / week	2 Hours/ Week

Proposed semester (s)	First Semester
Prerequisite	OBIO 212
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Describe the dual role of dentistry as a healthcare service and a business model
1.2	Recognize the basic principles of Practice Management
1.3	Describe the principles of Health Safety for both the practitioner and patient including Infection control, ergonomics, privacy and quality assurance.
1.4	Define Dental Informatics and its components
2	Skills
2.1	Differentiate between functional and non- functional conflicts, between errors and violations, and between incident reporting and grievance
2.2	Analyze error using Reason's Swiss Cheese Model
2.3	Apply healthcare communication techniques (SBAR, Call Out, Check Back)
2.4	Use the web to search for relevant information
3	Values
3.1	Comply with infection control measures, patient privacy documentation on R4 and radiology audits to maintain a safe dental practice.
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Basic Dental Skills -Practice Management-1	Introduction to the Course	1	Lecture/Interactive Discussion with Feedback
		The Basics of Practice Management		
		The basics of practice management: Introduction	1	Lecture/Interactive Discussion with Feedback
		Dental Informatics	1	Lecture/Interactive Discussion with Feedback
		Dental Informatics:	1	Lecture/Interactive Discussion with Feedback

		Regulatory Aspect (HIPPA versus Saudi Regulations)		
		Practical Session: Dental Informatics: Orientation of Electronic Health Records (EHR)	2	Practical session
		Radiograph Prescription, Request, and Interpretation on Electronic Health Record (EHR) System (20 Min)		
		The Patient and Dental Healthcare Team: Leadership and Management	1	Lecture/Interactive Discussion with Feedback
		The Patient and Dental Healthcare Team: Communication in the Healthcare Systems	1	Lecture/Interactive Discussion with Feedback
		The Business of Dentistry	1	Lecture/Interactive Discussion with Feedback
Humanism	Feedback & Conflict Resolution	Mid-Tern Exam & Feedback	1	Exam
The Dentist	Basic Dental Skills -Practice Management-1	Success in Business of Dentistry (7 Habits)	1	Lecture/Interactive Discussion with Feedback
		Health Care Safety: Infection Control	1	Lecture/Interactive Discussion with Feedback
		Infection Control Demonstration	2	Practical Session
		Health Care Safety: Regulatory Aspect (OSHA)	1	Lecture/Interactive Discussion with Feedback
		Health Care Safety: The Safety Culture	1	Lecture/Interactive Discussion with Feedback
		Equipment Ergonomics	1	Lecture/Interactive Discussion with Feedback
		Ergonomics: Make the Best of Your Dental Chair	2	Practical session
		Incident Reports and Complaints - Case Based Learning (CBL)	1	Lecture/Interactive Discussion with Feedback
		Quality Assurance and Orientation to Assessment	1	Lecture/Interactive Discussion with Feedback

		Audits Instructions	1	Lecture/Interactive Discussion with Feedback
Humanism	Feedback and Conflict Resolution	Online Tutorial (Blackboard)	8	Lecture/Interactive Discussion with Feedback
Total				30

	Assessment Title	Assessment Description		Week Due	Proportion of Total Assessment
Continuous Assessments	Practical Requirements*	Practical Application and Assessment of Competence*	R4 Practical Session* Description: It is a practical training session on the electronic health record system (R4). Each group of students receive a live operational demonstration on R4 system. After concluding the training session, each individual student is required to successfully finish operational tasks (checklist) on R4 under the supervision of the trainer.	1 st sem. Based on WTT	2.5%
	These competencies are assessed on pass/fail basis You have to repeat it until you pass Number of repetitions will be counted and will not affect your mark.		Infection Control Practical Session* Description: It a practical training session to provide students with in depth preparation of the students to equip them with the adequate	1 st sem. Based on WTT	2.5%

			<p>capacity to do ideal infection control and to spot possible infection control violations in clinical area.</p> <p>Each group of students receive a live operational demonstration on perfect infection control based on a checklist handed to them.</p> <p>Assessment Parameters: Each student has to successfully perform infection control. If the student failed one task, then he/she has to redo the task again until it is successfully done.</p>		
	Audits	Quality Control and assessment of Compliance with OSHA and HIPAA	<p>Radiation Safety Audit To assess and train the students to recognize the importance of Radiation Safety and possible violations and radiation hazards that may occur in the clinical area. This audit helps the student to check measures practiced in the Clinic as required by OSHA and HIPPA</p> <p>Tool Used: Electronic Google Form</p> <p>Description: Each dental student should complete 1 audit in a google form that have closed ended questions with multiple responses (MCQs) (Individual Audit). Each student will provide a reflective comment on the findings with a suggested plan of action.</p>	1 st sem. Based on WTT	10% (2% each)

			<p>Time Needed: 30-45 minutes</p>		
			<p>R4 Audit To assess and train the students to recognize the importance of patient electronic records completeness. Also, it trains the student to recognize potential area of missing information in patient electronic record. This audit helps the student to check measures practiced in the Clinic as required by OSHA and HIPPA.</p>		
			<p>Tool Used: Electronic Google Form</p>		
			<p>Description: Each dental student should complete <u>2 audits</u> in a google form that have closed ended questions with multiple responses (MCQs) (Individual Audit). Each student will provide a reflective comment on the findings with a suggested plan of action.</p>		
			<p>Time Needed: 30-45 minutes</p>		
			<p>Infection Control Audit To assess and train the students to recognize the importance of infection control and possible violations that may occur in the clinics. This audit helps the student to check measures practiced in the Clinic as required by OSHA and HIPPA</p>		
			<p>Tool Used: Electronic Google Form</p>		

			<p>Description: Each dental student should complete 2 audits in a google form that have closed ended questions with multiple responses (MCQs) (Individual Audit). Each student will provide a reflective comment on the findings with a suggested plan of action.</p> <p>Time Needed: 30-45 minutes</p>		
			<p>Legislations for Establishing Dental Practice (Saudi versus USA System)</p> <p>Students used the “Comparison Sheet” to compare between USA legislations for opening a new dental practice, as provided in the ADA checklist with Saudi in terms of:</p> <ul style="list-style-type: none"> • legal and regulatory aspects • licensing regulation • local requirements • professional association, • infection control and OSHA <p>Student will upload the assignment on blackboard in the assigned deadline</p>		
Assignments			<p>Effective Communication with the Healthcare Team to improve Patient Safety (SBAR)</p> <p>Tool Used: Checklist given in the lecture</p> <p>Description: It is an individual take-home assignment with one open ended question</p>	<p>1st sem. Based on WTT</p>	8%
				<p>1st sem. Based on WTT</p>	5%

			to assess the depth of student's understanding of the professional communication skills		
	In-Class Activity:		Self-Assessment as Reflected on the Success in the Business of Dentistry -		
			Tool Used: Seven Habits® Profile Self-Scoring Survey		
			The activity is divided into two parts:		
		Leadership – Teamwork Communication Supporting Patient Safety	Part 1: In-Class Activity and the assessment depends on attending class on-time and participation (2.5%) Part 2: Take-Home Activity and the assessment depends on the submission of the exercise sheet and reflection on the stated deadline Students will be able to Identify critical success factors common to all practices through self-assessment using g Seven Habits® Profile Survey	1 st sem. Based on WTT	5%
		Practical Application	Incident Reporting: Student are divided into groups and will watch a video for an incident occurring in dental practice. Students are required to use the “incident report form” approved by KAUFUD/UDH to fill the form Discussion and feedback will take	1 st sem. Based on WTT	Formative

			place during the session		
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs and Open-Ended Questions	1 st sem. W4	20%
	Final Year Exam	Knowledge/Cognitive Skills	Paper 1: MCQs and Open-Ended Questions	1 st sem. W5	40%
			Paper 2: OSHA and HIPAA Regulations*		
	Objective Structured Clinical Examination (OSCE)	Quality Control Audits	This is a pass/fail paper. If you failed it you are allowed to repeat the paper for as many times, before the end of the semester, until you pass it. If you didn't pass you will fail the course. Station will be about Audits to assess students' ability to recognize violations to safety measures practiced in the Clinics as required by OSHA and HIPPA	1 st sem. W11	2%
Total					100%

Course name	Community Dental Practice
Course code	PDS 633
Program	Bachelor of Dental Medicine and Surgery
Faculty	Dentistry
Department / Division	Dental Public Health
Course type	Required
Academic year (level)	Sixth Year
Credit hours	4
Contact hours / week	4 Hours/ Week
Proposed semester (s)	Full Year

Prerequisite	PDS 434
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Recognize the difference between the scope of public health practice and medical practice
1.2	List the basic components of the healthcare system in Saudi Arabia
1.3	Describe global and national trends and indices used to measure oral disease including caries.
1.4	Recognize the social determinants of health and epidemiological problems
2	Skills
2.1	Formulate PICO questions searching evidence and appraising dental literature in EBD
2.2	Perform oral screening in a community setting
2.3	Communicate effectively in groups, with peers and the public, maintaining group cooperation, to complete the required assignments.
2.4	Prepare health education presentation and fieldwork reflection using web-based search engine
2.5	Assess the need for preventive procedures and instructions for oral health
2.6	Develop an intervention program to promote oral health and explain the pattern of oral disease in society to contribute to health promotion
3	Values
3.1	Share in health education of the public and community
3.2	Perform tasks and activities professionally and with autonomy while collaborating in constructive teamwork
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Health Promotion	Community Dentistry Field Trips	Introduction to the course	2	Lecture with interactive discussion and feedback

		Introduction to public Health and Epidemiology	2	Lecture with interactive discussion and feedback
		Epidemiology & Measurements of Dental caries	2	Lecture with interactive discussion and feedback
Service Learning	Community Dentistry Health Education Projects	Oral Health Education	1	Lecture
		Educational print materials Instructions	1	Lecture with interactive discussion and feedback
Health Promotion	Community Dentistry Field Trips	Epidemiology & Measurements of Periodontal Disease	2	Lecture with interactive discussion and feedback
		Working on Educational Print Materials (session 1)	2	interactive discussion and feedback
		Epidemiology and Measurements of fluorosis	2	Lecture with interactive discussion and feedback
		Working on Educational Print Materials (session 2)	2	interactive discussion and feedback
		Epidemiology and prevention of head and neck cancers	2	Lecture with interactive discussion and feedback
		Working on Educational Print Materials (session 3)	2	interactive discussion and feedback
Service Learning	Community Dentistry Health Education Projects	Oral health disparities & social determinants of health	2	Lecture with interactive discussion and feedback
		Introduction to Health Needs Assessment and screening	2	Lecture with interactive discussion and feedback
Research / Mandatory Research Skills	Research Methodology "module"	Introduction to EBD	2	Lecture with interactive discussion and feedback
		Working on Educational Print Materials (session 4)	2	interactive discussion and feedback

		Quiz 1	1	
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry reports & Evidence-based Practice	Searching the evidence	3	interactive discussion and feedback
		Reading dental literature: [Study design]	2	interactive discussion and feedback
		Working on Educational Print Materials (session 5)	2	interactive discussion and feedback
		Reading dental literature: [Statistical analysis]	2	interactive discussion and feedback
		Working on oral presentation for field visits	1	interactive discussion and feedback
		Critical appraisal of dental literature	4	interactive discussion and feedback
		Clinical Application of EBD	4	interactive discussion and feedback
Health Promotion	Community Dentistry Field Trips	Health education oral presentations	4	interactive discussion and feedback
		Quiz	2	
		Critical appraisal	2	
		Revision	2	
		Clinical training, calibration and fluoride varnish I	4	clinical session
		Preliminary visit to schools	4	Field visits
		Clinical training, calibration and fluoride varnish II	4	clinical session
		Service learning/ reflection	2	interactive discussion and feedback
		Writing instructions before first field trip	2	interactive discussion and feedback
		Field Trips 1	4	Field visits
		Field Trips 2	4	Field visits

		Field Trips 3	4	Field visits
		Field Trips 4	4	Field visits
		Health care system (KSA)	2	Lecture interactive discussion and feedback
		Working on Fieldwork Reflection Presentation 1	2	interactive discussion and feedback
		Health care system (USA)	2	Lecture with interactive discussion and feedback
		Working on Fieldwork Reflection Presentation 2	2	interactive discussion and feedback
		Oral Health Promotion	4	Lecture with interactive discussion and feedback
		Quiz 2	1	
		Oral Disease Prevention	3	Lecture with interactive discussion and feedback
		Final Fieldwork Reflection Presentation	4	Presentation
		Revision	4	
lectures			33	not including qs and revision
Training (Field trips and clinical)			47	
Presentation			4	
Interactive discussion			36	
Total				120

	Assessment Activities	Week Due	Proportion of Total Assessment
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Continuous Assessments	Quiz 1 Test-based written exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	1 st sem. W 8	5%
	Quiz 2 Test-based written exam	Knowledge/ Cognitive Skills	Paper-Based: MCQs	2 nd sem. W13	7.5%
	Assignment and In-Class Activities	Case Study Activity-1	<p>Title: Comparison of the Health Care Systems</p> <p>Description: Students are divided into groups and each group will represent a parameter that describes the health care system. (group activity)</p> <p>Assessment Parameters (Objectives): Describes the health care system in KSA and USA</p>	Based on WTT	41%
		Case Study Activity-2	<p>Title: Oral Health Promotion</p> <p>Description: Students are divided into groups and each group will choose a health promotion intervention and explain how you are going to make happen using the Ottawa Charter's health promotion action steps. (group activity)</p> <p>Assessment Parameters (Objectives): List the steps of health promotion action.</p>	Based on WTT	
		Case Study Activity-3	<p>Title: Research Ethics Case</p> <p>Description: Students are divided into groups and each group will discuss the</p>	Based on WTT	

			<p>ethical violations in the case, then we will have public discussion about the case (group activity)</p> <p>Assessment Parameters: Understand the role of IRB/ERC, the research misconduct, and issues with Publication of Research Findings</p>		
		Case Study Activity-4	<p>Title: Periodontal Disease Risk Factors</p> <p>Description: Students are divided into groups and each group will discuss a risk factor regrading a specific group, then we will have public discussion about these factors (group activity)</p> <p>Assessment Parameters (Objectives): discuss a risk factor for Periodontal disease</p>	Based on WTT	
		Case Study Activity-5 (Research Skills)	<p>Title: Introduction of Epidemiology</p> <p>Description: Problem Solving (individual activity)</p> <p>Assessment Parameters (Objectives): Calculate Incidence and prevalence</p>	Based on WTT	
		Case Study Activity-6	<p>Title: Head and Neck Cancer Epidemiology in class activity</p> <p>Description: Students are divided into groups and each group is required to answer questions about a scenario assessing the four levels of disease</p>	Based on WTT	

			<p>prevention. (group activity)</p> <p>Assessment Parameters (Objectives): To describe the levels of cancer prevention</p>		
		Case Study Activity-7	<p>Title: Social Determinants of Health in class activity</p> <p>Description: Students are divided into groups and each group gets a different scenario about the life of a hypothetical individual, (four different scenarios are provided). Students are then asked to answer questions about the scenarios, based on what they took in class. (group activity)</p> <p>Assessment Parameters (Objectives): To recognize the social determinants of health</p>	Based on WTT	
		Case Study Activity-8 (Research Skills)	<p>Title: Different ways of Data collection</p> <p>Description: Students are divided into groups and each group will represent a modality of data collection (Mail, Phone, Interview)- Role Play, then each group will evaluate and compare themselves to other groups in different parameters. (group activity)</p>	Based on WTT	

	Oral Presentation	Presentation Skills and Teamwork	<p>Title: <i>Health Education Presentation</i></p> <p>Assessment Parameters (Objectives): Design and develop health education presentation using power point</p>	TBD	5%
	Fieldwork Trips	Design and Construct Educational Material for Health Promotion	<p>Title: <i>Education Print Materials including Pamphlets and Posters</i></p> <p>Tool Used: Evaluation Form for Educational Print Materials with</p> <p>Assessment Parameters (Objectives): Formulate an Educational Print Materials in small group, interact effectively in groups and with peers, maintaining group cooperation, to complete the required assignments and Resolve any conflict that arises during small group assignments</p>	TBD	10%
		Fieldwork and calibrations	<p>Title: primary school in Jeddah (first- and third-year students)</p> <p>Tools Used:</p> <p>1- Oral Examination</p> <p>2- Condition/Oral health education</p> <p>3 - One to One Oral hygiene instruction</p> <p>Description: Group and individual activity</p> <p>Assessment Parameters (Objectives):</p>	TBD	2.5%

			<p>1-List and describe the common oral problems (Oral Hygiene)</p> <p>2-Conduct oral screening in a community setting and provide referral information and estimate DMFT</p> <p>3-Design and create health educational presentations</p> <p>4-Manage to complete required assignments in groups.</p> <p>5-Resolve any conflict that arises during small group assignments. % from</p>		
		Reflection Writing	<p>Title: Reflection Writing instruction for the fieldwork</p> <p>Assessment Parameters (Objectives): Prepare and present fieldwork reflection report at the end of primary school visits:</p> <p>Level 1: Self-reflection</p> <p>Level 2: The situation and/or setting</p> <p>Level 3: The impact on self and the community</p>	TBD	2%
		Fieldtrip Presentation	<p>Title: <i>Final Fieldwork Presentation</i></p> <p>Assessment Parameters (Objectives): Prepare and present fieldwork report at the end of the year using power point</p>	TBD	2%

	Final Year Exam Test-based written exam	Knowledge/ Cognitive Skills	Paper-Based: MCQ and short essay	3rd sem. W14	25%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFUD rules and regulations			(minus) 2%
Total					100%

COMPREHENSIVE CARE CLINIC COMMITTEE (CCC)

COMPULSORY COURSES

Division	Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			C H	Pre-Requisites
					Th	Pr	Tr		
Comprehensive Care Clinics Committee	Comprehensive Care Clinics (Adult & Geriatric)	CCC 600	ع ع ش 600	24	2	0	22	24	CDS 511 CDS 522 OMR 534 OMR 523 OBCS 545 OBCS 556

Course name	Comprehensive Care Clinic - (Adult & Geriatric)
Course code	CCC 600
Program	Bachelor of Dental Medicine and Surgery
Faculty	Dentistry
Department / Division	CCC
Course type	Required

Academic year (level)	Sixth Year
Credit hours	24
Contact hours / week	40 H / Week
Proposed semester (s)	Full Year
Prerequisite	CDS 511, CDS 522, OMR 534,OMR 523, OBSC 545, OBSC 556
Course format	Clinical course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Identify the complexity of aging and special care needs in patient management and the importance of dentistry in total patient care
1.2	Recognize social and psychological issues relevant to the care of patients.
2	Skills
2.1	Perform data gathering including medical history, thorough clinical examination related to all dental disciplines, and requesting all necessary diagnostic aids.
2.2	Analyze the gathered data to establish a problem list, differential and definitive diagnoses, prognosis and patient-centered treatment plan options in all dental disciplines taking into account behavioral management.
2.3	Communicate effectively both verbally and in writing with patients, colleagues, the public, and other health care providers including the referral of the patient beyond the scope of the general dentist.
2.4	Perform appropriate therapies and procedures in all dental disciplines including post-operative instructions and patient education taking into account different level of complexity.
2.5	Implement an approved comprehensive treatment plan in a logical and sequential manner, ensuring continuity and quality of patient care.
2.6	Develop a maintenance protocol for oral health including recall.
2.7	Critically appraise different types of dental research and effectively identify, interpret, and apply relevant evidence from the scientific literature to clinical decision-making.
3	Values
3.1	Demonstrate effective understanding and appropriate application of Islamic moral values and ethical principles and code of professional conduct.
3.2	Apply principles of safe dentistry including infection control measures and recording patient health records (R4).
3.3	Show the ability to self-assess, accept criticism and work in teams.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist		Introduction to CCC	1	Lecture
	CCC: Diagnosis, Treatment Planning,- 3	Endodontic Diagnosis	3	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Caries Diagnosis	3	Interactive session
	CCC - Special Care	Special Care Dentistry and Scope of General Dentist "Review of Biomedical Sciences"	3	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Diagnostic aids and medical Consultation	2	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Prosthodontics Diagnosis: Evaluation of Partially Edentulous Patients and Special Considerations in Fixed Prosthodontic Treatment Planning	2	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Prosthodontics Diagnosis Part I: Evaluation of Existing Fixed Prosthesis	1	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Prosthodontics Diagnosis Part II: Evaluation of Existing Removable Prosthesis	1	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Extensive Periodontal Diagnosis	2	Interactive session
	CCC: Diagnosis, Treatment Planning,- 3	Assessment of Restorability	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Introduction to Gerodontology I&II	2	Lecture
The Dentist	CCC: Patient Education,	Social & Behavioral Assessment	2	Interactive session

	Behavioral Management, and Preventive Dentistry			
	CCC: Diagnosis, Treatment Planning,- 3	Treatment plan workshop	4	Interactive session
	CCC: Patient Education, Behavioral Management, and Preventive Dentistry	Medical Emergency	2	Interactive session
	Comprehensive Clinical Care Clinics of Geriatric patient	Endodontic considerations in geriatric dentistry	1	Lecture
	Comprehensive Clinical Care Clinics of Geriatric patient	Restorative considerations in geriatric dentistry	1	Lecture
	CCC Management	Prescription Writing	1	Interactive session
	Collecting data Basic Skill	Guidelines for use of patient forms Part I and Part II, KAUDH Policies and Procedure Program, and Photography	1	Interactive session
	Comprehensive Clinical Care Clinics of Geriatric patient	Vitamin D & Calcium Deficiency Osteoporosis in Geriatric Patients	1	Lecture
	CCC - Dental Urgencies and Emergencies-2	Dental emergencies Part I Dental pain, facial swelling & Part II: Dental Trauma	3+3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Teeth Preparation Skill Assessment	4	Practical
The Dentist	CCC: Diagnosis, Treatment Planning,- 3	Administrative Session (4)	7	Interactive session
Interdisciplinary / Disease Prevention and Health Promotion in Children, Adults, Geriatric,	Comprehensive Clinical Care Clinics of Geriatric patient	Nutrition and Aging	1	Lecture

and Special Care Patients				
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Common Oral Mucosal Conditions, Diagnosis and management	3	Lecture
Interdisciplinary / Disease Prevention and Health Promotion in Children, Adults, Geriatric, and Special Care Patients	Comprehensive Clinical Care Clinics of Geriatric patient	Oral surgery in geriatric patients	1	Interactive session
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Radiographic prescription	3	Interactive session
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Overview of Endodontic Treatment	1	Interactive session
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Non-carious Cervical Lesion	3	Interactive Session
The Dentist	CCC: Patient Education, Behavioral Management, and Preventive Dentistry	Ethical Dilemma I	1	Interactive Session
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Periodontal Diagnosis Workshop	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Prosthodontic considerations in geriatric dentistry	1	Lecture
The Dentist	Management in dentistry	Endodontic treatment outcome and non-surgical re-treatment	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Rehabilitation of acquired maxillary defects I	1	Lecture
The Dentist	Management in dentistry	Overview of RPD Design	3	Interactive session

Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Rehabilitation of acquired maxillary defects II	1	Lecture
The Dentist	Management in Dentistry	Assessment of existing restorations	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Comprehensive Clinical Care Clinics of Geriatric patient	Rehabilitation of Mandibular Defects	1	Lecture
The Dentist	Management in dentistry	Implantology for the general dentist (periodontics and prosthodontics perspectives)	3	Interactive session
The Dentist	Diagnosis and Treatment Planning in Dentistry-3	Radiographic interpretation	3	Interactive session
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 1	2	Interactive session
The Dentist		Phase-I Re-evaluation	1	Lecture
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 2	3	Interactive Session
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 3	3	Interactive Session
The Dentist	Management in Dentistry	Understanding Special Care Dentistry (Introduction)	1	Lecture
The Dentist	Management in dentistry	History taking and management of medically complex patients	3	Interactive session
The Dentist		Tips and Tricks in Fixed Prosthodontics	3	Interactive session
Humanism		OSCE Preparation	4	Interactive session

Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 4	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Special Care Dentistry Geriatric patient	Impact of disability I: Medically compromised patients	2	Lecture
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Special Care Dentistry	Impact of disability II: Mentally disabled patients	1	Lecture
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Special Care Dentistry	Impact of disability III: Physical & sensory disability	1	Lecture
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 5	3	Interactive session
	Special Care Dentistry	Impact of disability IV: Psychological and social disability	1	Lecture
Interdisciplinary / Maintenance and Assessment of Treatment Outcome	Maintenance and Assessment of Treatment Outcomes II	Prevention, maintenance and recall protocol in KAUF D	3	Interactive session
Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Special Care Dentistry	Management of disabled patients I: Communication & consent	1	Lecture
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 6	3	Interactive session
The Dentist	Management in dentistry	Overview of Complete Denture Prosthodontics	3	Interactive session
Foundation Skills / Evidence Based Dentistry	Evidence-based Dentistry Reports and Evidence-based Practice	EBD 7	4	Interactive session

Interdisciplinary / Comprehensive Clinical Care of Child, Adult, and Geriatric	Special Care Dentistry	Management of disabled patients II: Protocol for preventing dental disease	1	Lecture
The Dentist	Management in dentistry	Digital Workflow in Prosthodontics Part I&II	4	Interactive session
The Dentist		The General Dentist's Role in Managing Smile Analysis and Assessment of Aesthetics	2	Interactive Discussion
The Dentist	Diagnosis and Treatment Planning in Dentistry-3		3	Interactive session
Civility		Self-Assessment/ Mindfulness Mental Health		Interactive session
Humanism		Formative Assessment 1 (written exam) and Feedback +Feedback for Oral Medicine OSPE 2 Formative Assessment 2 and Feedback and Preparation for Mid-year Exam Mid-year MCQ Feedback Mid-term Problem solving and OSPE Feedback Feedback for Oral Radiology OSPE and Periodontal OSPE Feedback for Oral Medicine OSPE Formative Assessment 3 and Feedback and Preparation for the Final Exam	2+2+1+3+1+1+2+1+4 (17)	Interactive Discussion
Case Presentations				84
Clinical Sessions				476
Total				720

	Assessment	
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Assessment Category	Title/Type of Activity	Description	Proportion of Total Assessment
Formative Continuous Assessment	Course Assignments	Description: Students will have four written formative continuous assessment assignments throughout the academic year	-
EBD and Scientific Research Activity – Part 3	EBD in class Activity	Description: Students are divided into groups, then they choose a topic and go through the process of a mini-systematic review under the supervision of a senior staff member. As a group they should submit a report. Assessment Parameters: Students should: analyze a topic, formulate a PICO, develop a search strategy, perform a systematic search and come up with a list of results, develop inclusion and exclusion criteria for filtering selected articles, read the selected articles and design an evidence-based table, Synthesize conclusions and write a report.	3%
	EBD topic presentation	Description: Group presentation of the selected EBD topic following the provided guidelines. Presenter is selected randomly. Assessment Parameters: Assess presentation skills, presenter's appearance and scientific content of presentation	
	EBD topic report	Description: Group report of the selected EBD topic following the provided guidelines. Assessment Parameters: Assess scientific content of report	
Comprehensive Diagnosis and Treatment Planning – Cognitive Ability and Comprehension	Series of CBL Activities and Group Discussion Description: The class is divided into groups. For each CBL Activity, either a mini-lecture is given, or each group will be assigned a case with a targeted task to	Topic: History taking and management of medically complex patients Assessment Parameters: • Demonstrate the importance of all aspects of history taking in dentistry • Differentiate between consultation and referral. • Evaluate some of the common medically complex condition the general dentist might encounter.	Formative Assessment Summative Assessment will be in MCQs, PS, OSPE, OSCE and MPE

prepare before the assigned CBL session. During the session. Students will be asked to discuss the cases, search the internet, and students will be given tasks targeting ILOs of interest. The task should be met at a particular given time frame and then is discussed with the supervisor with the class. Then as a conclusion, the supervising lecturer, summarizes the finding and objectives of the exercise.

- Outline different components of referral/consultation letters.
- Demonstrate obligations of the referring clinician.

Topic: Common oral mucosal conditions, diagnosis and management

Assessment Parameters:

- Recognize the clinical characteristics of different oral lesions
- Generate differential diagnosis of most common oral lesion and those associated with some systemic diseases, based on history taking, and detection of clinical findings.
- Request proper diagnostic aids when needed
- Recognize the general basic histopathologic characteristics of different oral lesions
- Interpret collected diagnostic data to reach definitive diagnosis of the most common oral lesions, and those associated with some systemic diseases.
- Identify clinical and histopathological findings that may indicate malignant changes in oral lesions.
- Manage the most common oral lesions, and those associated with some systemic diseases
- Apply appropriate treatment modality and modify conventional dental treatment in patients with systemic diseases relevant to dentistry.
- Refer and/or perform consultation for advanced and suspicious oral lesions and those with uncontrolled or undiagnosed systemic background.

Topic: Caries diagnosis and caries risk assessment (ICDAS)

Description: A mini lecture is given, then students are divided into groups and are given a case or two with a task targeting ILOs of interest. The task should be met at a particular given time frame and then is discussed with the supervisor with the class. Then as a conclusion, the supervising lecturer, summarizes the

		finding and objectives of the exercise.	
		Topic: Endodontic diagnosis and difficulty assessment of endodontic cases	
		Description: A mini lecture is given, then students are divided into groups and are given a case or two with a task targeting ILOs of interest. The task should be met at a particular given time frame and then is discussed with the supervisor with the class. Then as a conclusion, the supervising lecturer, summarizes the finding and objectives of the exercise.	
		Assessment Parameters: <ul style="list-style-type: none"> • Discuss the concept and criteria for diagnosis pulpal and periapical conditions. • Use the endodontic diagnosis form to record the case. • Apply the AAE Difficulty Assessment Form to assess the endodontic case • Recognize pulpal and periapical diagnosis using the new terminology according to the American Association of Endodontics. • Show competency in diagnosis of different presentations • of pulpal and periapical diseases. • Generate a treatment plan for each endodontic case 	
Comprehensive Diagnosis and Treatment Planning –	Oral Medicine MPES	Topic: Treatment planning	2.1 %
		Assessment Parameters: <ul style="list-style-type: none"> • Recognize the purpose of the treatment plan and the phase concept. • Recognize that the phase concept can be applied on individual tooth basis. • Formulate a treatment plan based on his previous knowledge in different disciplines taking in consideration different patient-related factors. 	
	Periodontics MPES	Identification of Oral Mucosal lesion	1.3 %
		Referral form/consultation	
		Periodontal assessment	

Clinical Competence		Non-surgical periodontal therapy Periodontal re-evaluation	
Each procedure will be repeated until performed independently, and competently. After which, student will be eligible to enter Clinical Competency Exam (CCE)	Restorative dentistry diagnostic MPEs	Caries diagnosis, Caries risk assessment Assessment of existing restorations	0.8 %
	Prosthodontics diagnosis MPEs include:	Occlusal Analysis, Assessment of Restorability, Assessment of Edentulous Area Assessment of Existing Prosthesis (Fixed or Removable) Smile Analysis	0.8 %
Comprehensive Diagnosis and Treatment Planning – Critical Thinking and Communication Skills	Primary case presentation (individual activity)	Description: Students are given the opportunity to choose one of their CCC cases and present it. In this presentation students should present collected data, diagnosis and treatment planning of the case. Assessment Parameters: Assess presentation skills, data collection skill, problem list enumeration skill and treatment planning skills.	2%
Comprehensive Patient Care - Cognitive Ability and Comprehension	Series of CBL Activities and Group Discussion Description: The class is divided into groups. For each CBL Activity, either a mini-lecture is given, or each group will be assigned a case with a targeted task to prepare before the assigned CBL session. During the session. Students will be asked to discuss the cases, search the internet, and students will be given tasks targeting ILOs of interest. The task should be met at a particular given time frame and then is discussed with the supervisor with the class. Then as a conclusion, the supervising lecturer, summarizes the	Topic: Prescription writing Description: A mini lecture is given, then students are divided into groups and are given a case or two with a task targeting ILOs of interest. The task should be met at a particular given time frame and then is discussed with the supervisor with the class. Then as a conclusion, the supervising lecturer, summarizes the finding and objectives of the exercise	Training and Formative Assessment OSCE
		Topic: Assessment of existing restorations Assessment Parameters: <ul style="list-style-type: none"> • Review types of failure of various restorations • List the criteria for evaluation of existing restorations • Understand the clinical diagnosis of recurrent caries • Judge the correlation between marginal discrepancies and recurrent caries • Justify the relation between patient caries risk and survival of restorations 	Formative Assessment Summative Assessment will be in MCQs, PS, OSPE, OSCE and MPE

	<p>finding and objectives of the exercise.</p>	<ul style="list-style-type: none"> • Discuss minimally invasive management procedures for partially defective restorations • Identify the need for minimally invasive procedures before complete replacement in localized defects • Make clinical decision for management of defective restorations <p>Topic: Assessment of existing prosthesis</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Assess clinical condition of existing fixed prosthesis as marginal adaptation, contour, embrasure size, occlusion and esthetics • Apply the skills of diagnosis through the assessment procedures • Extract and interpret assessment data to induce an unbiased complex clinical decision making for replacing, correcting or keeping the current existing fixed prosthesis. • Evaluate existing RPD regarding design, hygienic value, aesthetic and the existing occlusion. • Identify the need for relining, rebasing, repair and/or addition of new teeth in existing RPD. <p>Topic: Assessment of restorability</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Assess tooth restorability from a periodontics, endodontic, and restorative/prosthetic point of view. • List proper sequence for restorability assessment. • Recognize different factors that might affect to the decision-making process during the restorability assessment process. <p>Topic: Treatment planning</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Recognize the purpose of the treatment plan and the phase concept. • Recognize that the phase concept can be applied on individual tooth basis. • Formulate a treatment plan based on his previous knowledge in different disciplines taking in 	
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		consideration different patient-related factors.	
		<p>Topic: Multidisciplinary approach to special care cases</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Apply critical thinking in SCD through resolving real patients' clinical situations. 	
		<p>Topic: Medical emergencies</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Describe the etiology of infections of the head and neck. • Describe symptomatology of head and neck infections of odontogenic origin. • Describe the rationale for treating odontogenic infections of the head • Describe the most frequent origin of odontogenic infections that have spread to the fascial spaces or anatomical areas of the head and neck. • Classify the degree of risk associated with infections in any of the fascial spaces or anatomical areas of the head and neck. • Explain why the anatomic location and other variables must be considered in evaluation of patients with head and neck infections. • List treatment modalities used to treat infections of the dentoalveolar process • Describe the laboratory tests used to help diagnose head and neck infections. • Describe step-by-step procedures taken when progressing from initial diagnosis to definitive treatment and monitoring of patients with head and neck infections. • List and identify signs and symptoms associated with facial fractures. • Define the various types of fractures: greenstick, simple, comminuted, compound, favorable, unfavorable, etc. • List methods of treatment of various dentoalveolar injuries. • List means of temporary immobilization of facial fractures. 	

		<ul style="list-style-type: none"> • Select specific laboratory tests required for diagnosis of bleeding or coagulation disorders • Explain methods to stop bleeding and how to manage bleeding disorders in dental clinic 	
		<p>Topic: Dental emergencies part I: dental pain and facial swelling</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Describe and outline a sequential approach to endodontic emergencies: <ol style="list-style-type: none"> Determine the source of pain (pulpal or periapical) Establish a pulpal and periapical diagnosis. Identify the etiologic factors of the pathosis. <ul style="list-style-type: none"> • Design a plan for pain control in an emergency situation • List indications for incision for drainage • Compare between emergency treatments of symptomatic irreversible pulpitis with/without symptomatic apical periodontitis. • Compare between emergency treatment of necrotic pulp with a localized and with a diffuse swelling • Summarize the treatment plan for a flare-up between appointments • Identify emergency conditions in need for antibiotic treatment. 	
		<p>Topic: Dental emergencies Part II: dental trauma</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Recognize the unique aspects of dental trauma. • Recognize traumatic injuries involving various parts of the tooth and supporting structures. • Identify the most common types of dental trauma. • Choose the clinical and radiographic examination necessary to gather information about the injured tooth and supporting structure. • Summarize the importance of radiographic examination needed during clinical investigation of traumatic dental injuries. 	

- Analyze the biological consequences and the treatment principles for each type of injury.
- Classify traumatic conditions that should be treated acutely (within few hours), sub acutely (within 24 hours) or delayed (after 24 hours).
- Define enamel fractures, crown fractures without pulp exposure, and crown fracture with pulp exposure, crown-root fracture and root fractures.

Topic: Endodontic treatment outcome and non-surgical re-treatment

Assessment Parameters:

- Identify causes of non-healing of non-surgical 1ry endodontic treatment.
- Correlate subjective and objective clinical diagnostic tests with radiographic interpretation to reach a correct diagnosis of non-healing cases.
- Outline the factors that influences retreatment decision making
- Summarize methods of coronal disassembly.
- Identify methods of post-removal.
- Relate complications of post-removal to mis-management
- Specify different methods and approaches for detecting missed canals
- Summarize precautions taken during gutta percha removal.
- Recognize methods for paste-removal.
- Identify causes of instrument's separation and ways of prevention.
- Summarize factors affecting prognosis of intra-canal separated instruments.
- Compare between prognosis of instrument separation at different root levels.
- Recognize the appropriate method (s) for managing separated instruments at different circumstances.
- Compare between ledges and blockages concerning definition, clinical diagnosis, and prognosis.
- Describe clinical management of a ledged canal.

		<ul style="list-style-type: none"> • Classify apical transportations and their relative corrective treatment planning. • Differentiate between 4D of perforations concerning prognosis, repair materials, and procedures. • Compare between supra-crestal & sub-crestal perforation concerning treatment modalities. 	
		<p>Topic: The general dentist's role in managing aesthetic concerns</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Recognize smile design formula. • List all challenging factors to achieve high aesthetic outcome. • Describe ideal smile elements and parameters. • Describe modern concepts for diagnosis & treatment planning of smile in aesthetic zone. 	
		<p>Topic: Implantology for the general dentist</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Identify the difference between natural teeth and dental implants. • State the benefits and risks of placing dental implants. • Describe causes of dental implant failure. • Classify dental implant failure • Identify specific dental implant failure and classify it. • Recognize the role of the general dentist with dental implants. • State the success criteria of dental implants. • Success rate of dental implants and difference in various location of maxilla and mandible. • Implant maintenance protocol. • Define Peri-Implantitis. • Classify Peri-Implantitis. • Recognize signs and symptoms of Peri-Implantitis. • Identify management of Peri-Implantitis. 	
		<p>Topic: Restoration of endodontically treated and mutilated teeth (Story of a tooth)</p> <p>Assessment Parameters:</p> <ul style="list-style-type: none"> • Define the goal of endodontic treatments and goals of coronal restorations 	

		<ul style="list-style-type: none"> • Correlate between endodontic treatment and restoration • Describe the importance of coronal seal, and identify the factors influencing leakage. • Identify the treatment outcome in endodontics. • Analyze endodontic considerations before and after final restoration. • List indication and types of posts and core. • Describe the ferrule effect. • Describe restorability evaluation from endodontic, periodontics and prosthetic prospective. • Clarify treatment planning with regard to endodontic treatment or crown lengthening: which one comes first? • Appraise the effect of endodontic materials on bonding 	
		<p>Topic: Prevention, maintenance and recall protocol in KAUF</p> <p>Assessment Parameters: - Recognize the importance of maintenance after completion of dental treatment Categorize patients into types depending on their risk or susceptibility to develop dental or oral lesions Identify the patient's follow-up time intervals Outline a patient specific professional maintenance regime Design a patient specific at-home maintenance regime</p>	
		<p>Problem solving of CCC cases (exam simulation exercise)</p> <p>Description: six comprehensive cases are given to students with targeted questions. Students are advised to search the interment and ask supervisors to assist them in answering the questions before an assigned date for feedback. Then the key answer is discussed in an interactive type of session.</p> <p>Assessment Parameters: Identify risk factors for caries and periodontal disease. Determine risk status of patients.</p>	

		<p>Suggest a problem oriented. management and prevention plan.</p> <p>Acquire the skill of decision making and clinical reasoning.</p> <p>Acquire the skill of ethical reasoning.</p> <p>Describe the process of restorability assessment.</p> <p>Identify factors contributing to the decision making in restorability assessment.</p> <p>Determine if the management is within the scope of a general practitioner or should be referred appropriately.</p> <p>Classify patients ASA status.</p> <p>Explain the effect of age and medical condition on the management.</p>	
Comprehensive Patient Care - Clinical Competence		<p>Restorative dentistry Procedural MPEs include:</p> <p>Class II, III, IV, V and build-up cavity preparations and restorations.</p>	3 %
		<p>Endodontics procedural MPEs include:</p> <p>RCTs of 10 radicular canals, which should include:</p> <p>one emergency RCT,</p> <p>one re-treatment,</p> <p>one re-evaluation of RCT.</p> <p>All cases should be completed from diagnosis and difficulty assessment to final restoration.</p>	3 %
		<p>Prosthodontics procedural MPEs include:</p> <p>4-units of fixed prosthesis</p> <p>2 post and cores</p>	3 %
		<p>One-set of complete dentures</p> <p>cobalt chromium RPDs</p> <p>2 transitional RPDs</p>	1.7 %
	CCC Case Evaluation	<p>These main parameters are assessed to ensure overall holistic management of CCC cases:</p> <p>Diagnostic and treatment planning skills of the student. (3.33%)</p> <p>Quality of provided treatment (based on the CCC cases phase evaluation (post phase I, Post treatment)) (3.33%)</p> <p>CCC cases completion case (based on the goals set for the student for this particular case) (2.75%)</p> <p>Appropriate post-treatment referral and case release (0.84%)</p>	22.75 %

		Achieved treatment points (150 points are required) (12.5%)	
CCC Case Presentation	Final Case Presentation	<p>Description: Students are given the opportunity to choose one of their CCC cases and present it. In this presentation students should present the executed treatment and discuss possible alternative treatment options and complications that were encountered. They also present published evidence of a selected treatment option and discuss it.</p> <p>Assessment Parameters (Objectives): Assess presentation skills, data collection skill, problem list enumeration skill and treatment planning skills, disease prevention and health promotion provided skills, management provided skills, prognosis assessment skills, maintenance care provided skills.</p>	4%
Student Logbook	Chart Review	It is a 1:1 meeting with a clinical director to discuss clinical progress (Please refer to the clinical manual for details).	3%
Midyear Exam	Knowledge/Cognitive Skills	Paper1: MCQs	3.5%
		Paper 2: Problem Solving	3.5%
Final Year Exam	Knowledge/Cognitive Skills	Paper1: MCQs	5%
		Paper 2: Problem Solving	5%
Clinical Competency Exam (CCE)	<p>Clinical Competency Exam*</p> <p>Your competence is dependent on your clinical skills as well as practice management skills and adherence to code of professional conduct.</p>	Oral Medicine CCE (OSPE 1 & 2)	2.1%
		Oral Radiology CCE (OSPE)	0.8%
		Periodontics CCE (OSPE)	1%
		Operative Dentistry CCE -1 for Procedure*: Timed Class III cavity preparation and restoration	3%
		Operative Dentistry CCE -2 for Procedure*: Timed Class II cavity preparation and restoration	
		Endodontics CCE for Procedure*: Root canal treatment (2-3 canals in Pre-Molar or Molar Teeth)	2.5%

		Fixed Prosthodontics CCE for Procedure*: Post and core CCE. Crown CCE (preparation, impression taking and provisional construction). Crown delivery CCE.	3.5%
		Removable Prosthodontics CCE CCE for Procedure*: Complete denture (Jaw relation registration)	0.8 %
Objective Structured Practical Examination (OSPE) – 1st Semester	Clinical knowledge This is a pass/fail exam	Short answer and structured short essay Assessing parameters: Provide a problem-based treatment plan that promotes health and disease prevention, Assess risks for disease and modify them. Assess and manage the patient esthetic need. Assess and manage simple geriatric patients with commonly encountered medical problems. Assess and manage moderate geriatric patients with complicated co-morbidity, Assess occlusion and manage patients' functional needs, Assess and manage teeth with questionable prognosis, Assess and manage patients with oral pathologic lesions and manage dental emergencies	2.5%
Objective Structured Practical Examination (OSPE) 2nd Semester			5%
Objective Structured Clinical Examination (OSCE)	Behavioral Management, Interprofessional, Procedural and Analytic Skills	<p>These are the potential OSCE stations:</p> <p>OSCE Station 1*: Behavior management – Angry Patient</p> <p>Students should demonstrate ability to:</p> <ol style="list-style-type: none"> 1. Interact with this angry/ upset patient 2. Mention the number of the step <p>OSCE Station 2*: Behavior management - Dental Anxiety and Fear</p> <p>Students should demonstrate ability to:</p> <p>Distinguish between dental anxiety and fear. Explain to the patient the proper behavioral management technique</p>	9.2%

related to either dental anxiety or dental fear.

OSCE Station 3*: Identification and Management of Common Oral Conditions

Students should demonstrate ability to:

Provide differential diagnoses based on the provided picture.

List two questions that would you ask the patient to rule out underlying systemic conditions.

List required LAB tests if the patient reported persistent fatigue, weight gain, irritability, frequent urination and thirst.

Provide final diagnosis based on clinical picture and lab tests.

OSCE Station 4*: Management of Endodontic Emergency

Students should demonstrate ability to:

Address all the patient concerns.

Inform the patient of the diagnosis and treatment plan explaining why root canal treatment is the best option.

Present the case to the examiner following the SBAR technique.

(Situation, Background, Assessment, Recommendation)

Mention the pharmacological agents that are required for treatment of this patient.

OSCE Station 5*: Management of Dental Trauma

Students should demonstrate ability to:

Identify the required information to fully assess the patient.

Mention the type of the objective tests and assessments required for the case.

Identify the type of dental trauma in assigned tooth.

Describe the emergency management for this tooth.

Describe the endodontic management.

List postoperative instructions to the patient

Mention the recall schedule for the patient

OSCE Station 6*: Infection Control Audits

Students should demonstrate ability to identify at least 20 IPAC violations the dentist made

OSCE Station 7*: Repair of Defective Resin Composite Restoration

Students should demonstrate ability to:

Identify two defects of class IV composite restoration.

Select the proper tool for adjusting resin composite restoration.

Simulate (carry on) proper procedure for correcting resin composite restoration.

Check completion of step 3.

Select the tools and perform polishing procedure on the restoration.

OSCE Station 8*: Assessment of Occlusion of Posterior Composite Restoration

Students should demonstrate ability to:

Demonstrate on the given model how would you check occlusion.

Adjust proper chair positioning.

Select needed tool/s.

Name all required movements.

Simulate all required movements.

OSCE Station 9*: Patient Education and Oral Hygiene Instructions for a Special Need Patient (e.g., Arthritis, Parkinson, blind patient)

Students should demonstrate ability to:

Educate the patient about his/her periodontal condition.

Explain management approaches for his/her condition.

Give oral hygiene instructions.

OSCE Station 10*: Relining of mandibular distal-extension RPD

Students should demonstrate ability to:

1. Assess the accuracy of RPD adaptation and the need for refitting.

	<p>2. Demonstrate the clinical steps of RPD Relining in a logical sequence.</p> <p>3. Select the most appropriate materials and instruments required for each step.</p>	
	<p>OSCE Station 11*: Evaluation of the Prepared Abutment Tooth and Zirconia Crown</p> <p>Students should demonstrate ability to:</p> <p>Identify two problems in the prepared abutment tooth that caused crown dislodgement</p> <p>Describe how to correct each of the identified problems</p> <p>Select appropriate tools/instruments to assess the crown clinically</p> <p>Demonstrate step-by-step assessment of the crown (proximal contact and marginal integrity and occlusion).</p>	
	<p>OSCE Station 12*: Implant Crown Delivery</p> <p>Students should demonstrate ability to:</p> <p>Select the appropriate screw-retained implant crown for tooth #26</p> <p>Perform clinical try-in using dental floss and articulating paper</p> <p>Use a torque wrench to tighten the crown to 15 Ncm></p> <p>Properly seal the screw access cavity using Teflon tape and composite resin.</p> <p>Handle implant instruments correctly, including screwdriver and ratchet attachment.</p> <p>Maintain correct orientation during torquing</p> <p>Demonstrate awareness of the need for radiographic verification of crown fit.</p>	
Ethics and Professionalism	The professionalism assessment is done by the mentor at the end of the year based on how the student behaved during their clinical work. It looks at things like attendance, communication, organization, infection control, and dress code.	1.3%
TOTAL		100%

FACULTY OF MEDICINE DEPARTMENTAL COURSE

OFFERINGS

DEPARTMENT COMPULSORY COURSES

Course Title	Code No.	Arabic Code No.	Credit Hours	Contact Hours/Week			CH	Pre-Requisites
				Th.	Pr.	Tr.		
Gross Anatomy	ANTD 201	ت ش س 201	5	2	4	0	6	BIO 110
Histology & Embryology	HIED 201	أ ج س 201	3	2	2	0	4	BIO 110
Physiology	PHYD 201	و ا س 201	4	2	3	0	5	CHEM 110 BIO 110 PHYS 110
Biochemistry	BCHD 201	ك ح س 201	4	2	3	0	5	CHEM 110
General & Systemic Pathology	PATD 301	ا م س 301	4	2	3	0	5	PHYD 201 ANTD 201
Microbiology, Immunology & Parasitology	MICD 301	أ د س 301	2	1	2	0	3	BIO 110
Dental Pharmacology	PHAD 301	ع ا س 301	2	2	0	0	2	CHEM 110 BIO 110 PHYS 110
General Medicine	MEDD 401	ط ب س 401	2	1	2	0	3	ANTD 201 PHYD 201 BIO 110 OBCS 334
General Surgery, ENT & GENERAL Anesthesia	SURD 401	ج ح س 401	2	1	2	0	3	ANTD 201
Pharmacotherapeutics	PHAD 501	ع ا س 501	2	2	0	0	2	PHAD 301

DEPARTMENT COMPULSORY COURSES BY CLASS YEAR

Year	Course Title	Dept.	Code	Credit Hours	TCH
2 nd	Gross Anatomy	ANTD	201	5	6
2 nd	Histology & Embryology	HIED	201	3	4
2 nd	Physiology	PHYD	201	4	5
2 nd	Biochemistry	BCHD	201	4	5
3 rd	General & Systemic Pathology	PATD	301	4	5
3 rd	Microbiology, Immunology & Parasitology	MICD	301	2	3
3 rd	Dental Pharmacology	PHAD	301	2	2
4 th	General Medicine	MEDD	401	2	3
4 th	General Surgery, ENT & GENERAL Anesthesia	SURD	401	2	3
5 th	Pharmacotherapeutics	PHAD	501	2	2

Course name	Gross Anatomy
Course code	ANTD 201
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Department of Anatomy
Course type	Required
Academic year (level)	Second Year
Credit hours	5
Contact hours / week	6 H / Week
Proposed semester (s)	Full Year
Prerequisite	BIO 112
Course format	Didactic course with practical training
Course Learning Outcomes (CLOs)	
1	Knowledge and Understanding
1.1	Identify anatomical terms/structures and topographic anatomy of the different body systems including head and neck areas.
1.2	Describe the body's lymphatic drainage system, highlighting regional lymph nodes vulnerable to tumor spread.
1.3	Describe the anatomical distribution of the central nervous system, its related structures as well as the special sense organs
2	Skills
2.1	Differentiate between different anatomical structures including bony skeleton, blood vessels, nerves, skeletal muscles with their attachments and their nerve supply.
2.2	Differentiate between the anatomy of the different body organs including head & neck, CNS and its related structures and the special sense organs.
2.3	Correlate the significance of anatomical, histological and physiological structures of the body systems to their functions, clinical relevance including the dental profession.

2.4	Correlate the different body structures including head and neck (as TMJ, salivary glands, facial space infection), CNS, special sense organs, thyroid gland and larynx to their normal function and possible lesions as well as dental relevance.
2.5	Communicate effectively with supervisors and peers.
2.6	Show the ability to use computers and technology in searching the web.
3	Values
3.1	Demonstrate the skills of professionalism and self-learning.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	Basic Dental Skills	Medical Terminology	2	Lecture
		Anatomy of the lymphatic system	2	Lecture
	The Body System / Musculoskeletal System (MSS) "in Health"	Introduction to MSS Bones and joints	1	Lecture
		Muscles	1	Lecture
		Tutorial	2	Interactive discussion
	The Body System / Cardiovascular System (CVS) "in Health"	Introduction to the CVS	1	Lecture
		Anatomy of the mediastinum pericardium and Heart	1	Lecture
	The Body System / Respiratory System (RS) "in Health"	Introduction to Respiratory System (Pleura and lungs and thoracic wall Anatomy of the larynx Medical relations and hila of the lungs)	1	Lecture
	The Body System / Gastrointestinal tract & Hepatobiliary System	Introduction to GIT	1	Lecture
		Introduction to GIT, esophagus and Stomach	1	Lecture
		Anatomy of the Small & Large Intestines	1	Lecture

		Anatomy of Liver, Gallbladder, Pancreas, Spleen & Portal Circulation	1	Lecture
	The Head & Neck / The Head & Neck as a Whole	Introduction to head and neck anatomy	1	Lecture
		Introduction, skull normae & its age changes	2	Lecture
		Cranial cavity	1	Lecture
		Orbit	2	Lecture
		Maxilla & mandible	1	Lecture
		Tutorial	2	Interactive discussion
		Dental relevance of head and Neck osteology & radiology with Anatomy and dentistry team	2	Interactive discussion + Case-based learning (CBL)
		Scalp	1	Lecture
		Face	1	Lecture
		Tutorial	2	Interactive discussion
		Introduction to Neck Anatomy	1	Lecture
		Posterior triangle of the neck of the neck	1	Lecture
		Anterior triangle of the neck	1	Lecture
		Viscera of the neck & thyroid gland	1	Lecture
		Vessels of the neck	1	Lecture
		Tutorial	2	Interactive discussion
		Integrated Session: Neck Interactive Learning and Application in Dentistry with Anatomy and dentistry team	2	Interactive discussion + Case-based learning (CBL)

The Patient	The Head & Neck / The Head & Neck as a Whole	Introduction to lateral side of the head	1	Lecture
		Infratemporal fossa	2	Lecture
		Pterygopalatine fossa	1	Lecture
		Tutorial	2	Interactive discussion
		Introduction to submandibular region	1	Lecture
		Submandibular region	2	Lecture
		Tutorial Submandibular region & Submandibular salivary glands	2	Interactive discussion
		Introduction to oral cavity & tongue	1	Lecture
		Soft & hard palate	1	Lecture
		Trigeminal nerve	1	Lecture
		Pharynx	2	Lecture
		Mastication and deglutition (Integrated Session: Interactive Learning and Application in Dentistry) (Dental relevance by Anatomy, Physiology & the dentistry team)	2	Interactive discussion + Case-based learning (CBL)
		Infratemporal fossa & Submandibular region (Integrated Session: Interactive Learning and Application in Dentistry) with Anatomy & dentistry team	2	Interactive discussion + Case-based learning (CBL)
		Introduction to Nasal cavity	1	Lecture
		Larynx	2	Lecture
		Lymphatic Drainage of the Head and Neck	1	Lecture
		Organization of the CNS	1	Lecture

	The Body System / The Nervous System (CNS) “in Health”	Anatomy of Spinal cord	1	Lecture
		Ascending tracts	1	Lecture
		Descending tracts	1	Lecture
		Brain stem1 (Midbrain & Pons)	1	Lecture
		Brain Stem 2 (Medulla oblongata)	1	Lecture
		Anatomy of the Cerebellum	1	Lecture
		Cerebral hemisphere (Supero-Lateral Surface)	1	Lecture
		Cerebral hemisphere (Medial & inferior Surfaces).	1	Lecture
		Sensory Cortex, Thalamus & Hypothalamus	1	Lecture
		Blood Supply of the Brain	1	Lecture
		Cranial nerve nuclei (their functions & the effect of their lesions)	2	Lecture
		Tutorial	2	Interactive discussion
		Tutorial	2	Interactive discussion
	The Head & Neck / Special Senses	Introduction to special senses. Visual, auditory & olfactory pathway	1	Lecture
		Anatomy of the ear	1	Lecture
		Tutorial	2	Interactive discussion
	The Body System / Endocrine System “in Health”	Anatomy of the endocrine glands	1	Lecture
	The Body System / Reproductive System “in Health”	Male Reproductive Tract	1	Lecture
		Female Reproductive Tract	1	Lecture

	The Body System / Renal System “in Health”	Introduction to the renal system. Anatomy of the kidney and ureter	1	Lecture
		Anatomy of the urinary bladder & urethra	1	Lecture
Revision and feedback session		Divided between S1, S2	4	Interactive discussion
Laboratory sessions			88	Laboratory session
Total				180

Type	Assessment Activities*			Assessment timing (in Week no.)	Percentage of total assessment score
Continuous Assessments	Integrated Assessment / IBLS	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	1%
	Integrated Assessment / MSS & ANS	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	2%
	Integrated Assessment / CVS	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	2%
	Integrated Assessment / RS	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	2%
	Integrated Assessment Osteology/ Head & Neck	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	5%
	Integrated Assessment / Neuroanatomy (Neuroscience CNS)	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	4%
	Integrated Assessment	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	2%

	/Special senses				
	Integrated Assessment (Temporal & Infratemporal & Submandibular regions)	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	5%
	Mid semester assessment /Head and Neck	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQS and short essay	Based on WTT	5%
	Requirement	Practical lab sessions	OSPE Practical Exam Tissue identification	Based on WTT	Requisite for entry of practical final exam
	In-Class Activity	Integrated Session: IBLS Interactive Learning and Application in Dentistry Integrated session with dentistry staff	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integrated Session MSS: Interactive Learning and Application in Dentistry with dentistry staff	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Dental relevance of head and Neck osteology & radiology with Anatomy and dentistry team	Integrated sessions and CBLs	Based on WTT	Assessed w 13 with Integrated Assessment/ Head & Neck
		Integrated Session: CVS Interactive Learning and Application in Dentistry	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)

		with Physiology & dentistry staff			
		Integrated Session: Respiratory System Interactive Learning and Application in Dentistry with Physiology & Dentistry staff	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integrated Session: GIT Interactive Learning and Application in Dentistry with Physiology & dentistry team	Integrated sessions and CBLs	Based on WTT	Assessed in midyear exam W 15
		Integrated Session: Neck Interactive Learning and Application in Dentistry with Anatomy and dentistry team	Integrated sessions and CBLs	Based on WTT	Assessed in the midyear exam
		Infratemporal fossa & Submandibula r region (Integrated Session: Interactive Learning and Application in Dentistry)	Integrated sessions and CBLs	Based on WTT	Assessed in 2 nd sem W 3 in Integrated assessment
		Mastication and deglutition (Integrated Session: Interactive Learning and Application in Dentistry)	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integration seminar (Neuralgia and types of	Integrated sessions and CBLs	Based on WTT	(mark allocated in the

		headaches, Interactive Learning and Application in Dentistry)			Physiology course)
		Cognition, Study Habits, and Cranial Nerve Testing (Integrated Session: Interactive Learning and Application in Dentistry) with dentistry team	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integrated Session: Special senses Interactive Learning and Application in Dentistry with Physiology & Dentistry staff	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integrated Session: Endocrine System & Pregnancy (Interactive Learning and Application in Dentistry) with dentistry team	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
		Integrated Session: The Renal System in Health Interactive Learning and Application in Dentistry with dentistry team	Integrated sessions and CBLs	Based on WTT	(mark allocated in the Physiology course)
	Student Logbook	Recording each lab activity	Weekly recording of students' practical performance	Throughout the year	Requisite for entry of practical final exam

Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQ and short essay	TBD	30 %
	Final Year Exam	Knowledge/Cognitive Skills	Written assessment: Paper-Based: MCQ	TBD	30 %
	Objective Structured Practical Examination (OSPE) Midyear	Psychomotor skills/ Cognitive Skills	OSPE Practical Exam Spotting of specimen	TBD	5%
	Objective Structured Practical Examination (OSPE) Final	Psychomotor skills/ Cognitive Skills	OSPE Practical Exam Spotting of specimen	TBD	5 %
Others	Attendance				2 %
Total					100%

Course name	Histology & Embryology
Course code	HIED 201
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Department of Anatomy
Course type	Required
Academic year (level)	Second Year
Credit hours	3 hours (2h Histology & 1h Embryology)
Contact hours / week	4 H / Week
Proposed semester (s)	Full Year
Prerequisite	BIO 112
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Identify the histological components of the cells at both light and electron microscopic levels
1.2	Recognize the organization of cells and tissues of the different body systems
1.3	Recognize the basic terminology of embryonic and fetal human development.
1.4	Describe in detail the development of head and neck structures, body systems, special senses and their congenital abnormalities
1.5	Outline the derivatives of ectodermal, mesodermal and endodermal germ layers.
2	Skills
2.1	Differentiate the histological features of the different body tissues
2.2	Correlate the development of the different anatomical features to their function as well as malformations
2.3	Correlate the histological structures of the body systems to their embryonic developmental, anatomical and physiological components
2.4	Draw a histologic section of the tissues
2.5	Show ability to use computer and technology in searching the web
3	Values
3.1	Demonstrate ethical behavior and respect of student and colleagues, as well as self-learning skills

List of Topics Histology:

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Building Blocks	Basic Sciences	Introduction to Histology and Histological techniques	1	Lecture
		Cell	2	Lecture
		Epithelium	1	Lecture
		Connective Tissue	2	Lecture
		Histology of cartilage & bone	2	Lecture
		Histology of bone formation & ossification	1	Lecture
		Histology of muscular tissue	1	Lecture
		Nervous tissue	1	Lecture
		Tutorial	1	Interactive session

		Tutorial	1	Interactive session
		Tutorial	1	Interactive session
		Lab: Introduction to histology and histology techniques & Cell	2	Practical (Lab)
		Lab: Epithelium	2	Practical (Lab)
		Lab: Connective Tissue	4	Practical (Lab)
		Lab: Histology of bone & cartilage	2	Practical (Lab)
		Lab: Muscles	2	Practical (Lab)
		Lab: Nervous tissue	2	Practical (Lab)
		Lab: Bone remodeling	2	Practical (Lab)
		Lab: Integument & skin	2	Practical (Lab)
The Patient	The Body System / Immune-Blood-Lymph System (IBLS) "in Health"	Histology of blood cells	1	Lecture
		Histology of myeloid tissue & Hematopoiesis	1	Lecture
		Histology of lymphatic tissue	1	Lecture
		Histology of mucosal lymphatic tissue	1	Lecture
		Lab: Preparation of blood film	2	Practical (Lab)
		Lab: Histology of lymphatic tissue	2	Practical (Lab)
	The Body System / Cardiovascular System (CVS) "in Health"	Histology of the CVS tissue	1	Lecture
		Lab: Histology of CV	2	Practical (Lab)
	The Body System / Respiratory System (RS) "in Health"	Histology of the respiratory system	1	Lecture
		Lab: Respiratory System	2	Practical (Lab)
	The Body System / Gastrointestinal tract & Hepatobiliary System "in Health"	Histology of the upper GIT	1	Lecture
		Histology of the lower GIT	1	Lecture
		Histology of liver & pancreas	1	Lecture
		Lab: Histology of upper GIT	2	Practical (Lab)
		Lab: Histology of the lower GIT	2	Practical (Lab)
		Lab: Histology of Liver & pancreas	2	Practical (Lab)
	The Body System / Integumentary System "in Health"	Integument & skin	2	Practical (Lab)

	The Body Systems	Integrated Session: Alveolar bone histology Interactive Learning and Application in Dentistry with Histology and dentistry team	2	Interactive session & CBL
	The Head & Neck / Oral Mucosal and Underlying Osseous Structures “in Health”	Oral mucosa (Histology dentistry team (auditing)	1	Lecture
	The Head & Neck / Salivary Glands “in Health”	Salivary glands conditions & nerve injuries CBL with Histology & Dentistry team	2	Interactive session & CBL
		Lab: Parotid glands	2	Practical (Lab)
		Lab: Submandibular salivary glands	2	Practical (Lab)
	The Head & Neck / Special Senses	Nose histology	1	Lecture
		Lab: Nasal mucosa	2	Practical (Lab)
	The Body System / Nervous System	Lab: Nervous tissue	2	Practical (Lab)
		Histology of cerebrum and cerebellum	2	Lecture
		Lab: Histology of cerebrum and cerebellum	2	Practical (Lab)
	The Head & Neck / Special Senses	Histology of the eye	1	Lecture
		Lab: Histology of the eye	2	Practical (Lab)
		Histology of the ear	2	Lecture
		Lab: Histology of the ear	2	Practical (Lab)
	The Body System / Endocrine system “in Health”	Histology of the endocrine glands	2	Lecture
		Lab: Histology of the endocrine glands	2	Practical (Lab)
	The Body System / Reproductive system “in Health”	Histology of the Male reproductive system	1	Lecture
		Histology of the Female reproductive system	1	Lecture
		Lab: Histology of the reproductive system	2	Lecture
	The Body System / Renal System “in Health”	Histology of of the kidney, ureter, bladder & urethra	1	Lecture
		Lab: Histology of the renal system	2	Lecture
		Tutorial	2	Interactive session
Total				94

List of Topics Embryology:

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Patient	The Body System / Development of the Human Body	Introduction and overview of human embryology Spermatogenesis & oogenesis	1	Lecture
		Fertilization	1	Lecture
		Implantation	1	Lecture
		Second week of development	1	Lecture
		Third week of development trilaminar germ disc	1	Lecture
		Embryonic period & folding	1	Lecture
		Placenta & fetal period	1	Lecture
		Umbilical Cord & Stem Cells from the Cord	1	Lecture
		Teratology & birth defects	1	Lecture
	The Head & Neck / Craniofacial Development	Pharyngeal arches	1	Lecture
		Development of the skull	2	Lecture
		Development of maxilla and mandible by Histology and dentistry team	1	Lecture
		Muscular development	1	Lecture
		Tutorial	1	Interactive session
		Integrated Session: Development of the face. Interactive Learning and Application in Dentistry by Histology and dentistry team	2	Interactive session & CBL
		Review of Pharyngeal arches & pouches	1	1 Lecture
		Review of development of the face	2	Lecture
		Development of the tongue & tongue anomalies (Histology dentistry team (auditing))	1	Lecture
		Development of the palate (Histology dentistry team (auditing))	1	Lecture
		Development of the brain	1	Lecture
		Development of the cranial nerve nuclei and spinal cord	1	Lecture
	The Head & Neck / Special Senses	Development of special sense organs	2	Lecture
Total				26

Type	Assessment Activities			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz - IBLS	Integrated Assessment	Paper-Based: MCQs/short essay	1 st sem. W5	2%
	Quiz - Core	Core Histology	Paper-Based: MCQs/short essay	1 st sem. W7	10%
	Quiz - MSS & ANS	Integrated Assessment	Paper-Based: MCQs/short essay	1 st sem. W8	2%
	Quiz - CVS	Integrated Assessment	Paper-Based: MCQs/short essay	1 st sem. W10	2%
	Quiz - RS	Integrated Assessment	Paper-Based: MCQs/short essay	1 st sem. W12	2%
	Quiz – H&N: Osteology	Core Anatomy, Histology and Dental Relevance	Paper-Based: MCQs/short essay	1 st sem. W13	2%
	Quiz – H&N: Temporal, Infratemporal & Submandibular regions	Core Anatomy, Histology and Dental Relevance	Paper-Based: MCQs/short essay	2 nd sem. W3	1%
	Quiz – CNS: Neuroanatomy	Core Anatomy, Histology and Dental Relevance	Paper-Based: MCQs/short essay	2 nd sem. W12	1%
	Quiz –Special Senses	Integrated Assessment	Paper-Based: MCQs/short essay	2 nd sem. W14	2%
	Assignment	integrated basic medical sciences assessment	<p>The purpose of the work is to provide students with the opportunity to explore an area of integrated basic medical sciences in depth.</p> <p>Directions for topic preparation and submission will be discussed during the first week of class.</p>	2 nd sem.	3%

	Requirement	Practical lab sessions	Histological section identification	Based on WTT	Requisite for Entry of Final Practical Exam
		Drawing Skills	Drawing of histological sections	Throughout the year	2%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to requirements
Final Assessments	Midyear Exam	Core Knowledge/Cognitive Skills	Paper-Based: MCQ and short essay	1 st sem. W15	30%
	Final Year Exam	Core Knowledge/Cognitive Skills	Paper-Based: MCQ	2 nd sem. W15	20%
	Objective Structured Practical Examination (OSPE) Midyear	Histological Section Identification	Slide presentation Exam	1 st sem. W15	10%
	Objective Structured Practical Examination (OSPE) Final	Histological Section Identification	Slide presentation Exam	2 nd sem. W15	10%
Professionalism	Attendance	Integrated sessions and CBLs	Integrated sessions for Body systems Interactive learning and application in dentistry	WTT	1%
Total					100%

Type	Assessment Activities			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz	Knowledge/Cognitive Skills	Paper-Based: MCQS	1 st sem. W 10	10%
	Assignment	Dental Relevance - Development of Maxilla and Mandible	Take-home assignment based on interactive session with Oral Histology Team	1 st sem. W8	2.5%
	In-Class Activity	Dental Relevance – Salivary Glands Development	Interactive session and CBL with Oral Histology Team	2 nd sem. W 2	2.5%

Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQS	1 st sem. W 15	35%
	Final Year Exam	Knowledge/Cognitive Skills	Paper-Based: MCQS	2 nd sem. W15	50%
Total					100%

Course name	Physiology
Course code	PHYD 201
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Physiology
Course type	Required
Academic year (level)	Second Year
Credit hours	4
Contact hours / week	5 H / Week
Proposed semester (s)	Full Year
Prerequisite	(CHEM 112, (BIO 112), (PHYS 112)
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Describe the normal and abnormal physiologic process and functions of the Cardiac, respiratory and hematopoietic systems.
1.2	Describe the normal and abnormal physiologic process and functions of the renal, reproductive, endocrine and GIT systems including health and pregnancy.
1.3	Describe the normal and abnormal physiologic process and functions of the central and peripheral nervous systems including special senses.
1.4	Identify the basic properties of cell membranes and the normal and abnormal physiologic process in the musculoskeletal system.
2	Skills
2.1	Correlate the normal structure and physiologic aspects in all body systems with their function and common pathologies.
2.2	Relate the pathophysiological aspects in all body systems relevant to Dental practice.

2.3	Apply physiologic concepts in clinical and laboratory settings by performing tests related to hematopoietic, cardiac and respiratory systems
2.4	Show ability to use computer and technology in searching the web
3	Values
3.1	Demonstrate ethical behavior and respect of student and colleagues, as well as self-learning skills
List of Topics	

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
First Semester				
Building Blocks	Basic Sciences	Introduction to homeostasis	1	Traditional Lecture
The Patient	The Body System / Immune-Blood-Lymph System (IBLS) "in Health"	Introduction to blood system & plasma proteins	1	Traditional Lecture
		Red blood cells, Anemias & Polycythemias	1	Traditional Lecture
		Hemostasis I&II	2	Traditional Lecture
		White blood cells	1	Traditional Lecture
		Tutorial	1	Interactive session
		Integrated Session: IBLS Interactive Learning and Application in Dentistry Integrated session with dentistry staff	2	Interactive session & CBL
	The Body System / Musculoskeletal System (MSS) "in Health"	Neurons as excitable Tissue	1	Traditional Lecture
		Neuromuscular Transmission	1	Traditional Lecture
		Mechanism of Muscle Contraction	1	Traditional Lecture
		Stretch Reflex and Muscle Tone	1	Traditional Lecture
	The Body System / Autonomic Nervous system (ANS) "in Health"	Divisions of ANS, types & functions of autonomic ganglia	1	Traditional Lecture
		Distribution of parasympathetic nervous system	1	Traditional Lecture

		Distribution of sympathetic nervous system	1	Traditional Lecture
		Adrenergic & cholinergic transmission	1	Traditional Lecture
	MSS	Tutorial	1	Interactive session
	MSS & ANS	Integrated Session MSS and ANS: Interactive Learning and Application in Dentistry with dentistry staff	2	Interactive session & CBL
	The Body System / Cardiovascular System (CVS) "in Health"	Introduction to Cardiovascular System	1	Traditional Lecture
		Auto-rhythmicity and Excitability of the Heart	1	Traditional Lecture
		The Heart as a Pump	1	Traditional Lecture
		Cardiac Cycle	1	Traditional Lecture
		Cardiac Output	1	Traditional Lecture
		Hemodynamics Resistance and Flow	1	Traditional Lecture
		Regulation of arterial Blood Pressure	1	Traditional Lecture
		Mechanism of Edema and Shock	1	Traditional Lecture
		Tutorial	1	Interactive session
		Integrated Session: CVS Interactive Learning and Application in Dentistry with Physiology & dentistry staff	2	Interactive session & CBL
	The Body System / Respiratory System (RS) "in Health"	Introduction to respiratory system and mechanics of breathing	1	Traditional Lecture
		Lung compliance and pulmonary surfactant	1	Traditional Lecture
		Volumes and capacities and gas exchange	1	Traditional Lecture
		Transport of O ₂ and CO ₂ in blood	1	Traditional Lecture

		Respiratory centers & neural regulation of breathing	1	Traditional Lecture
		Chemical regulation of breathing and hypoxia	1	Traditional Lecture
		Tutorial	1	Interactive session
		Integrated Session: Respiratory System Interactive Learning and Application in Dentistry with Physiology & Dentistry staff	2	Interactive session & CBL
	The Body System / Gastrointestinal tract & Hepatobiliary System “in Health”	Introduction to GIT, salivary secretion & swallowing	1	Traditional Lecture
		Physiology of the stomach	1	Traditional Lecture
		Physiology of gall bladder & pancreas	1	Traditional Lecture
		Integrated Session: GIT Interactive Learning and Application in Dentistry with Physiology & dentistry team	2	Interactive session & CBL
Second Semester				
The Patient	The Head & Neck / Special Senses	Physiology of speech (Integrated Session: Interactive Learning and Application in Dentistry) with dentistry team	1	Interactive session & CBL
	The Body System / CNS “in Health”	Sensory receptors & sensory transduction	1	Traditional Lecture
		Somatosensory cortex (functions & effect of lesions)	1	Traditional Lecture
		Physiology of Pain	1	Traditional Lecture
		Integrated case study I SYRINGOMYELIA	1	Interactive session & CBL
		Reflexes	1	Traditional Lecture
		Tutorial	1	Interactive session
		UMNL & LMNL	1	Traditional Lecture
		Somatic sensation	1	SDL

		Integrated case study II: TABES DORSALIS	1	Interactive session & CBL
		Integrated case study III: COMPLETE TRANSECTION OF THE SPINAL CORD	1	Interactive session & CBL
		Cerebellum & Motor Ganglia	1	Traditional Lecture
		Thalamus & hypothalamus	1	SDL
		Integrated case study IV: THALAMIC SYNDROME	1	Interactive session & CBL
		Integrated case study V: MOTOR ATAXIA	1	Interactive session & CBL
		Integrated case study VI: PARKINSONISM	1	Interactive session & CBL
		Integrated case study VII: HEMIPLEGIA (INTERNAL CAPSULE)	1	Interactive session & CBL
		Integrated case study VIII: TRIGEMINAL NEURALGIA & FACIAL PALSY	1	Interactive session & CBL
		Integration seminar (Neuralgia and types of headache, Interactive Learning and Application in Dentistry) with Physiology, Anatomy and dentistry team	2	Interactive session & CBL
		Cognition, Study Habits, and Cranial Nerve Testing (Integrated Session: Interactive Learning and Application in Dentistry) with dental team	2	Interactive session & CBL
	The Head & Neck / Special Senses (12 Hours)	Physiology of the eye	2	Traditional Lecture
		Physiology of taste & smell	1	Traditional Lecture
		Physiology of hearing	1	Traditional Lecture
		Tutorial special senses	2	Interactive session

		Integrated Session: Special senses Interactive Learning and Application in Dentistry with Physiology & Dentistry staff	2	Interactive session & CBL
	The Body System / Endocrine System “in Health”	Introduction to endocrine system	1	Traditional Lecture
		Hypothalamic Hormones	1	Traditional Lecture
		Pituitary function & control of pituitary hormones	1	Traditional Lecture
		Physiology of thyroid gland	1	Traditional Lecture
		Hormonal control of calcium homeostasis	1	Traditional Lecture
		Physiology of the adrenals	1	Traditional Lecture
		Physiology of Pancreas	1	Traditional Lecture
	The Body System / Reproductive System “in Health”	Male sex hormones	1	Traditional Lecture
		Female sex hormones	1	Traditional Lecture
	The Body System / Endocrine System “in Health”	Tutorial Endocrine System	1	Interactive session
		Integrated Session: The Endocrine System & pregnancy Interactive Learning and Application in Dentistry with dentistry team	2	Interactive session & CBL
	The Body System / Renal System “in Health” (6 Hours)	Introduction to renal physiology (structure & function of the kidneys)	1	Traditional Lecture
		Glomerular filtration and its regulation	1	Traditional Lecture
		Renal blood flow & its regulation & tubular reabsorption	1	Traditional Lecture
		Tubular secretion and regulation of tubular function	1	Traditional Lecture

		Integrated Session: The Renal System in Health Interactive Learning and Application in Dentistry with dentistry team	2	Interactive session & CBL
Revision and Feedback			2	
Practical Lab			55	
Total				150

Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz – IBLs	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/short essay	1 st sem. W5	3%
	Quiz – MSS & ANS	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/short essay	1 st sem. W8	4%
	Quiz – CVS	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/short essay	1 st sem. W10	5%
	Quiz – RS	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/short essay	1 st sem. W12	3%
	Quiz – CNS: Neurophysiology	Core Physiology	Paper-Based: MCQs/short essay	2 nd sem. W12	10%
	Quiz – Special Senses	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/short essay	2 nd sem. W14	5%
	Requirement	Practical lab sessions	performing experiments	Based on WTT	Requisite for Entry of Final Written Exam
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to requirements
Final Assessments	Midyear Exam	Core Knowledge/Cognitive Skills	Paper-Based: MCQ and short essay	1 st sem. W15	25 %
	Final Year Exam	Core Knowledge/Cognitive Skills	Paper-Based: MCQ	2 nd sem. W15	30 %

	Practical Examination	Practical Examination	CVS: Heart sounds and murmurs CVS: Measurement of blood pressure CNS: Examination of the sensory system CNS: Examination of the motor system CNS: Examination of the cranial nerves	Based on WTT	10%
	Objective Structured Practical Examination (OSPE) Final	Laboratory Test and Results Identification	Slide presentation Exam	2 nd sem. W15	5 %
Total					100%

Course name	Biochemistry
Course code	BCHD 201
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Biochemistry Department
Course type	Required
Academic year (level)	Second Year
Credit hours	4
Contact hours / week	5 Hrs/Wk
Proposed semester (s)	Full Year
Prerequisite	CHEM 112
Course format	Didactic course with practical training

Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Describe the cellular maintenance process in terms of energy production, biosynthetic ability, function of the key molecular components, their synthesis, assembly and degradation.
1.2	Describe the inputs and outputs of human intermediary metabolism.
1.3	Recognize the mechanism of action of hormones and feedback loops involved in regulation of body systems' function and key metabolic pathways.
1.4	Demonstrate understanding of the basic concepts and principles of genetics, as well as nutrition
2	Skills
2.1	Evaluate the biochemical logic of the human cells and its applications correlating biochemical principles and mechanisms to health and disease including oral health problems.
2.2	Relate the structures and chemical properties of biological macromolecules to their functions and metabolic regulation to organ systems and their demand for energy.
2.3	Request biochemical tests in certain selected clinical conditions.
2.4	Perform laboratory tests for diagnosis and follow up of clinical conditions
2.5	Interpret laboratory data related to certain clinical conditions by relating pathophysiology of different diseases.
2.6	Acquire skills of applying information technology mainly through searching the internet.
2.7	Communicate effectively with peers, colleagues and supervisors
3	Values
3.1	Demonstrate a capacity for self-evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement in the responsible, committed compassionate practice of dentistry imitating the institutional professional code of conduct.
List of Topics	

Track	Theme/ Module	Topics	Contact Hours	Teaching Strategy
Building Blocks	Basic Sciences	Introduction to Biochemistry		
		Introduction to Clinical Biochemistry	1	Lecture
		Protein Chemistry		
		Protein biological functions and structure of amino acids	1	Lecture

		Peptide bond and different levels of protein structures	2	Lecture
		Plasma proteins (with relation to IBLs)	1	Lecture
		Protein structure & function relationship (Hemoglobin & myoglobin) (with relation to IBLs)	1	Lecture
		Allosteric effector of Hemoglobin (with relation to IBLs)	1	Lecture
		Hemoglobin Synthesis (with relation to IBLs)	1	Lecture
		Red blood cell destruction (with relation to IBLs)	1	Lecture
		Tutorial	1	Interactive discussion
		Integrated Session: Protein (Interactive Learning and Application in Dentistry) with dentistry staff	1	Interactive discussion + Case-based learning (CBL)
		Enzymes and Coenzymes		
		Enzymes definition and classification	1	Lecture
		Enzymes properties and mechanism of catalysis	1	Lecture
		Enzyme kinetics	1	Lecture
		Enzyme inhibitors	1	Lecture
		Isozymes and enzymes measurements	1	Lecture
		Allosteric enzymes	1	Lecture
		Tutorial	1	Interactive discussion
		Carbohydrates Chemistry and metabolism		
		Carbohydrates Chemistry	1	Lecture
		Digestion & Absorption of Carbohydrates	1	Lecture

				(in alignment with GIT module)
		Glycosaminoglycan	1	Lecture
		Introduction to Metabolism and Bioenergetics and the role of ATP	1	Lecture
		Glycolysis	2	Lecture
		Tricarboxylic Acid Cycle (TCA)	1	Lecture
		Electron transport chain	1	Lecture
		Tutorial	1	Interactive discussion
		Glycogen Metabolism	1	Interactive discussion + Case-based learning (CBL)
		Gluconeogenesis	1	Interactive discussion + Case-based learning (CBL)
		Pentose phosphate pathway	1	Lecture
		Metabolism of Monosaccharides and Disaccharides	1	Lecture
		Tutorial	1	Interactive discussion
		Integrated Session: Carbohydrates (Interactive Learning and Application in Dentistry) with dentistry staff	1	Interactive discussion + Case-based learning (CBL)
		Tissue Metabolism		
		Bone and Teeth Structure & Metabolism	2	Lecture (in alignment with MSS module)

		Muscles	2	Lecture (in alignment with MSS module)
		Lipid Chemistry and Metabolism		
		Lipids Chemistry	1	Lecture
		Lipogenesis and Lipolysis	1	Lecture
		Ketone bodies Metabolism	1	Lecture
		Cholesterol Metabolism	1	Lecture
		Biological Membrane (structure and Transport)	1	Lecture
		Lipid Digestion & Absorption	1	Lecture (in alignment with GIT module)
		Liver function	2	Lecture (in alignment with GIT module)
		Lipoproteins Metabolism	1	Lecture (in alignment with CVS module)
		Protein Metabolism		
		Disposal of Amino Acid Nitrogen	1	Lecture
		Urea Cycle and Detoxification of Ammonia	1	Lecture
		Individual Amino Acid Catabolism (Phenylalanine, Tyrosine and Branched Chain Amino Acids)	1	Lecture
		Individual Amino Acid Catabolism (Tryptophan, Aspartic Acid, Glutamic Acid, Alanine and Serine)	1	Lecture
		Individual Amino Acid Catabolism (Sulfur Containing Amino Acids)	1	Lecture
		Tutorial	1	Interactive discussion
		Genetics		

The Patient	Molecular Biology, Physiology, and Genetics	Nucleotides Structure and Functions/ Digestion and absorption of nucleic Acids	1	Lecture
		Purine Nucleotide Metabolism	1	Lecture
		Pyrimidine Nucleotide Metabolism	1	Lecture
		Tutorial	1	Interactive discussion
		Structure of Nucleic Acids	1	Lecture
		Organization of Eukaryotic Chromatin; DNA sequence and function	1	Lecture
		Central Dogma I: DNA Replication	1	Lecture
		Genetic Mutation and DNA Repair	1	Lecture
		Central Dogma II: Structure of Ribonucleic (RNA) & Gene Transcription	1	Lecture
		Post Transcriptional Regulation	1	Lecture
		Central Dogma III: Gene Translation	1	Lecture
		Tutorial	1	Interactive discussion
		Genetics Integration seminar with dentistry team	2	Interactive discussion + Case-based learning (CBL)
	Nutrition	Macro-nutrients & Minerals		
		Macronutrients-I	1	Lecture
		Macronutrients-II	1	Lecture
		Vitamin B complex	1	Lecture
		Vitamin B complex and vitamin C	1	Lecture
		Vitamin A	1	Lecture
		Vitamin D, E and K	1	Lecture

		Calcium	1	Lecture
		Phosphorus	1	Lecture
		Iron & Fluoride	1	Lecture
		Tutorial	1	Interactive discussion
	The Head and Neck/ The Dental Hard Tissue "In Health"	Application of biochemistry in Dentistry		
		Application of biochemistry in Dentistry, Chemical Composition of The Teeth	1	Interactive discussion and feedback
		Application of biochemistry in Dentistry, Pellicle and plaque	1	Interactive discussion and feedback
		Application of biochemistry in Dentistry Caries	1	Interactive discussion and feedback
		Application of biochemistry in Dentistry Calculus and Periodontal Diseases	1	Interactive discussion and feedback
		Tutorial	1	Interactive discussion
	The Body System / The Endocrine System (ES) "in Health"	Hormones		
		General Aspects of Hormones	1	Lecture
		Hormone structure	1	Lecture
		Hormone Receptors and Mechanism of Action of Hormones.	1	Lecture
		Thyroid hormone synthesis and mechanism of actions	1	Lecture
		Structure and biosynthesis of steroids	1	Lecture
		Eicosanoids	1	Lecture
		Tutorial	1	Interactive discussion
The Patient	Basic Science	Tissue Metabolism		

		Neurotransmitters	1	Lecture (in alignment with CNS module)
Revision and feedback session		Divided between S1, S2	4	Interactive discussion
		Laboratory sessions	57	Laboratory Session
Total				150

Type	Assessment Activities*			Assessment timing (in Week no.)	Percentage of total assessment score
Prerequisite	Assessment of Previous Knowledge	Core Knowledge/ Cognitive Skills	Organic Biochemistry	1 st sem. W1	Formative
Continuous Assessments	Quiz 1 – Proteins & Enzymes	Core Knowledge/ Cognitive Skills	Paper-Based: MCQs/SQ	1 st sem. W6 (Blackboard)	5%
	Quiz 2 – Carbohydrat es	Core Knowledge/ Cognitive Skills	Paper-Based: MCQs/SQ	1 st sem. W11	5%
	Quiz 3 - Lipids	Core Knowledge/ Cognitive Skills	Paper-Based: MCQs/SQ	1 st sem. W14	5%
	Quiz 4 – Genetics	Core Knowledge/ Cognitive Skills	Paper-Based: MCQs/SQ	2 nd sem. W5	5%
	Quiz 5 – Nutrition	Core Knowledge/ Cognitive Skills	Paper-Based: MCQs/SQ	2 nd sem. W8	5%
	Quiz 6 – Hormones	Integrated Assessment, Clinical and Dental Relevance	Paper-Based: MCQs/SQ	2 nd sem. W13 Blackboard	5%
	Requirement	Practical lab sessions	Biochemical tests	Based on WTT	Requisite for Entry of Final Practical Exam

	In-Class Activity	Dental Application of Biochemical knowledge of Proteins	In-class group activity of the Interactive/CBL session of protein module	1 st sem. W3	2%
		Dental Application of Biochemical knowledge of Carbohydrates	In-class group activity of the Interactive/CBL session of Carbohydrates module	1 st sem. W10	2%
		Basic Molecular Biology and Application in Genetics	In-class group activity of the Interactive/CBL session of Genetics module	2 nd sem. W1	2%
		Dental Application of Biochemical knowledge of Tissue Metabolism	In-class group activity of the Interactive/CBL session on <ul style="list-style-type: none"> Composition of Teeth Dental Pellicle Dental Caries Calculus and Periodontal Disease 	2 nd sem. W8/9	2%
	Student Logbook	Keeping records of own experience	Throughout the year		5%
Final Assessments	Semester 1 Final Exam	Core Knowledge/ Cognitive Skills	Paper-Based: MCQ and short essay	1 st sem. W15	20 %
	Semester 2 Final Exam	Core Knowledge/ Cognitive Skills	Paper-Based: MCQ and short essay	2 nd sem. W15	20 %
	Practical Examination	Practical Examination : Psychomotor and Cognitive Skills	Students will be assessed on their ability to performing experiment and explain relevant steps	TBD	15%

Professionalism	Attendance	Integrated sessions/CBLs and Laboratory Sessions	Attendance will be separately monitored	Based on WTT	2%
Total					100%

Course name	General & Systemic Pathology
Course code	PATD 301
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Pathology Department
Course type	Required
Academic year (level)	Third Year
Credit hours	4
Contact hours / week	5 Hrs/Wk
Proposed semester (s)	Full Year
Prerequisite	PHYD 201, ANTD 201
Course format	Didactic course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Describe the basic pathological processes that underlie different diseases and abnormalities in an organ or tissue and their etiology.
1.2	Provide comprehensive understanding of common and significant diseases by identifying their predisposing factors, recognizing potential local and systemic complications, and explaining the biological behavior of each condition
1.3	Recognize structural and functional manifestations of diseases affecting body systems related to their prevalence, morbidity and mortality
2	Skills
2.1	Differentiate the histopathological features of diseases through inspecting microscopical slides and images
2.2	Correlate the disease processes to their clinical signs and symptoms and implementation of treatment and disease prognosis

2.3	Correlate the pathogenesis, structural and functional manifestations of diseases with oral health problems.
2.4	Discuss how laboratory investigations can establish the true nature of the illness and monitor its progress and response to therapy.
2.5	Use computational tools and search relevant web sites, incorporating the use and utilization of computer in the course requirements
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect and comply with professional code of conducts.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Building Blocks	Basic Sciences	Introduction & Cellular adaptation to Stress and Noxious Stimuli	1	Lecture
		Reversible and irreversible cell injury part I (necrosis)	1	Lecture
		Reversible and Irreversible cell injury II (apoptosis)	1	Lecture
		Cellular accumulation and pathological calcification	1	Lecture
		Dental Relevance of cell injury (Integrated with oral pathology)	2	Interactive session
The Dentist	The Body System / NS "in Disease"	Cerebrovascular Disease	1	Lecture
		Raised intracranial pressure, hydrocephalus, infections & tumors	1	Lecture
		Meningitis (Interactive sessions moderated by General Medicine staff)	2	Lecture
		Central Nervous System	2	Interactive session
	The Body System / IBLs "in Disease"	Acute inflammation: introduction & vascular events	1	Lecture
		Acute inflammation: leukocyte cellular events part	2	Lecture
		Chemical mediators and outcomes of acute inflammation	1	Lecture

		Chronic Inflammation & Morphologic Patterns of Inflammation	1	Lecture
		Repair by Regeneration & by Connective tissue	1	Lecture
		Wound Healing	1	Lecture
		Inflammation & Repair (1)	2	Interactive session
		Inflammation & Repair (2)	2	Interactive session
		Inflammation & Repair (3)	2	Interactive session
		Dental Relevance of inflammation and repair (collaboration with oral pathology OBCS 334, student prepared presentation SPP and tutorial)	2	Interactive session
		Mechanism of Autoimmune Diseases	1	Lecture
		Morphology of multisystem involvement of Systemic Lupus Erythematosus	1	Lecture
		Edema	1	Lecture
		Venous Congestion, hyperemia and hemorrhage	1	Lecture
		Thrombosis	1	Lecture
		Embolism and infarction	1	Lecture
		Hemodynamic Disorder Gross (Image)	2	Interactive session
		Dental Relevance of hemodynamic disorders (collaboration with oral pathology OBCS 334, student prepared presentation SPP and tutorial)	2	Interactive session
		WBCS disorders (1H)	1	Lecture

		Lymphoid neoplasm (1H)	1	Lecture
		IBLS in disease (Integrated session-by Multidisciplinary team)	1	Lecture
	The Body System / Neoplasia	Definitions, nomenclature & Characteristics of neoplasms (1 H)	1	Lecture
		Epidemiology of cancer (1 H)	1	Lecture
		Carcinogenesis: The Molecular Basis of Cancer (1 H)	1	Lecture
		Cancer suppressor genes and other genes that regulate cell proliferation (1 H)	1	Lecture
		Etiology of cancer: Carcinogenic Agents (1 H)	1	Lecture
		Host defense against tumors-tumor immunity, Clinical features of neoplasms (1 H)	1	Lecture
		Neoplasia: Benign Tumor	2	Interactive session
		Neoplasia: Malignant Tumors (1)	2	Interactive session
		Dental Relevance of neoplasia (collaboration with oral pathology, student prepared presentation SPP)	2	Interactive session
	The Body System / CVS "in Disease"	Atherosclerosis, Systemic Hypertension, Aneurysm	1	Lecture
		Ischemic Heart Diseases	1	Lecture
		Valvular heart diseases	1	Lecture
		The CVS in health and disease Integrated seminar (Interactive sessions and CBL (moderated by Multidisciplinary team)	2	Interactive session
		Clinical relevance of Cardiovascular diseases, Interactive sessions moderated by General Medicine staff)	2	Interactive session

		Cardiovascular System	2	Interactive session
	The Body System/ RS "in Disease"	Atelectasis, pediatric lung diseases & obstructive lung diseases	1	Lecture
		Restrictive lung diseases & vascular lung disorder	1	Lecture
		Pulmonary Infections & Lung Tumors	1	Lecture
		Clinical relevance of respiratory system diseases Interactive sessions moderated by General Medicine staff)	2	Lecture
		The respiratory system in health and disease, Interactive sessions and CBL (moderated by Multidisciplinary team)	2	Interactive session
		The Respiratory System (Gross Specimen)	2	Interactive session
	The Body System / Renal System "in Disease"	Renal diseases	2	Lecture
		Clinical relevance of the renal diseases (Interactive sessions moderated by General Medicine staff)	1	Lecture
		The renal system in disease, Interactive sessions and CBL (Multidisciplinary team))	2	Interactive session
		Renal System (Gross Image)	2	Interactive session
	The Body System / ES "in Disease"	Thyroid and Parathyroid disorders (Clinical relevance of the endocrine system diseases) Interactive sessions moderated by General Medicine staff)	1	Lecture
		The Endocrine system in health and disease, Interactive sessions and CBL (moderated by Multidisciplinary team)	2	Interactive session
	The Body System / GIT "in Disease"	Upper Gastrointestinal tract disorders	1	Lecture
		Lower Gastrointestinal tract disorders	1	Lecture
		GIT	2	Interactive session

	The Body System / HEPATOBIILIARY "in Disease"	Hepatic injury, failure and cirrhosis	1	Lecture
		Viral Hepatitis	1	Lecture
		LIVER pathology	2	Interactive session
		The Hepatobiliary system in health and disease and GIT system, Interactive sessions and CBL by Multidisciplinary team)	2	Interactive session
		Laboratory session	60	Practical
Total		150		

	Assessment Activities			Week Due	Proportion of Total Assessment
Continuou s Assessmen ts	Quiz 1	Core Knowledge and Clinical Relevance	Written assessment: MCQs/sho rt essay	1 st sem. W9	6.7%
	Quiz 2	Core Knowledge and Dental Relevance	Written assessment: MCQs/short essay	1 st sem. W14	6.7%
	Quiz 3	Core Knowledge and Clinical Relevance	Written assessment: MCQs/short essay	2 nd sem. W7	4.6%
	Quiz 4	Integrated Assessment (Body systems	Written assessment: MCQs/short essay	2 nd sem. W12	6.7%
	Requireme nt	Posters using rubric	Dental relevance	Based on WTT	Requisite for Entry of Final Practical Exam
	Student Logbook	Recording each lab activity		Through out the year	Requisite for Entry of Final Practical Exam
Final Assessmen ts	Midyear Exam	Core Knowledge/Co gnitive Skills	Written assessment: MCQs and short essay	1 st sem. W16	36.7%
	Final Year Exam	Core Knowledge/Co gnitive Skills	Written assessment: MCQs	2 nd sem. W16	18.7%
	Objective Structured Practical Examinatio	Laboratory Test and Results Identification	Slide presentation Exam	1 st sem. W15	13.3%

	n (OSPE) Midyear				
	Objective Structured Practical Examination (OSPE) Final	Laboratory Test and Results Identification	Slide presentation Exam	2 nd sem. W15	6.6%
Total					100%

Course name	Microbiology, Immunology & Parasitology
Course code	MICD 301
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Microbiology, Immunology & Parasitology Department
Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	3 Hours/Week
Proposed semester (s)	Full Year
Prerequisite	BIO 112
Course format	Didactic course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Describe the normal oral flora and causative organisms of oral infections, dental caries, and periodontal infection
1.2	Outline the different methods of microbiological diagnosis of microbial diseases and their treatment, prevention and control
1.3	Describe the lifecycle of parasites relevant to dentistry as well as their effect on oral health and their main aspects of prevention and control
2	Skills
2.1	Distinguish the different causative agents (microorganisms), their medical importance, character, mode of transmission and pathogenesis in relation to body systems

2.2	Differentiation between immunological responses against infections
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2.3	Conduct laboratory tests diagnostic for bacterial, viral and fungal diseases, including different methods of viral cultivation
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Differentiate between Gram +ve and Gram -ve bacteria by microscope and culture, and susceptibility and sensitivity of the microorganisms to antimicrobials.

2.5	Use of contemporary information technology
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3	Values
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3.1	Demonstrate a capacity for self-evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement in the responsible, committed compassionate practice of dentistry
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3.2	Demonstrate safe handling and sterilization of tools and different equipment
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List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Patient	The Body System / IBLS "in Health" Immunology	Introduction to Microbiology	1	Lecture
		Innate and Adaptive immunity	1	
		Cells & Tissues of the immune system	1	Lecture
		Sterilization	1	Lecture
		Antigens and Antibodies	1	Lecture
		Humoral and cell mediated immunity	1	Lecture
		Laboratory session	2	Interactive
		Immunology Tutorial	1	Interactive
		Immunology Feedback	1	Interactive
Building Blocks	Basic Sciences	Introduction to Bacteriology: Classification and Physiology	1	Lecture
		Immunity to infection	1	Lecture
The Patient	The Body System / IBLS "in Disease"	Host and Parasite Relationship	1	Lecture
The Patient	The Body System / IBLS "in Disease"	Antimicrobial chemotherapy	1	Lecture
Building Blocks	Basic Sciences	Streptococci and Micrococci	1	Lecture
		Corynebacteria, Propionibacteria & Lactobacillus	1	Lecture
		Actinomyces & Aggratibacter	1	Lecture
		Spirochaetes, Fusobacteria & Veillonell	1	Lecture
		Gram positive cocci and bacilli lab	2	Interactive
		Gram negative cocci and rods lab	2	Interactive

		Oral anaerobic bacteria	1	Lecture
		Neisseria & Capnocytophaga	1	Lecture
		Bacteriology	2	Interactive
		Bacteriology Tutorial	1	Interactive
		Bacteriology lab	2	Interactive
		Bacteriology Feedback	1	Interactive
		Introduction to Virology	1	Lecture
		Virology	1	Lecture
		Herpes virus	1	Lecture
		Virology lab	2	Interactive
		Virology Tutorial	1	Interactive
		Virology Feedback	1	Interactive
		Introduction to Mycology	1	Lecture
		Candida albicans & other fungi of relevance to dentistry	1	Lecture
		Mycology Tutorial	1	Interactive
		Mycology Feedback	1	Interactive
		Mycology lab	2	Interactive
The Patient	The Body System / IBLs "Oral Manifestation/ Relevance"	Allergic Reactions in The Dental Office (CBL In Collaboration with Oral Pathology)	2	Interactive
The Dentist	Basic Dental Skills / Practice Management	Infection control	1	Lecture

The Patient	The Body System / RS "in Disease"	Infections of the respiratory system	1	Lecture
	The Body System / GIT & HS "in Disease"	Infections of the GIT	1	Lecture
		Hepatitis virus	1	Lecture
	The Body System / NS "in Disease"	Infections of central nervous system and locomotor system	1	Lecture
Building Blocks	Basic Sciences	Retroviruses	1	Lecture
		Introduction to parasitology, commensals & opportunistic	1	Lecture
The Patient	The Body System / Integumentary System "in Disease"	Schistosomiasis	1	Lecture
		Toxoplasmosis, Visceral & Mucocutaneous leishmaniasis	1	Lecture
	The Body System / IBLS "in Disease"	Malaria	1	Lecture
	The Body System / IBLS "Oral Manifestation/ Relevance"	Relation of parasitic infection with dentistry Theme: Parasitology	1	Lecture
Building Blocks	Basic Sciences	Mycology & Parasitology	2	Lecture
		Oral Microbiology	4	Interactive
		Feedback	1	Lecture
		Laboratory Session	37	Interactive
		Lab revision	2	Interactive
Total				90 %

Course name	Dental Pharmacology
Course code	PHAD 301
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Pharmacology Department

Course type	Required
Academic year (level)	Third Year
Credit hours	2
Contact hours / week	2 Hrs/Wk
Proposed semester (s)	Full Year
Prerequisite	(CHEM 112) , (BIO 112) , (PHYS 112)
Course format	Didactic course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Describe principles of pharmacokinetics and pharmacodynamics including routes of drug administration, methods of drug transport, pathways of drug movement
1.2	Discuss the classification, indications, adverse effects, and causes of resistance of antimicrobial therapy, chemotherapeutic drugs and antiplaque agents
1.3	Describe mechanism of action, uses, adverse effects of different drugs used in treatment of diseases related to body systems and analgesics
2	Skills
2.1	Compare between drugs regarding onset, route of administration and toxicity relevant to specific clinical situations
2.2	Correlate drug response to the changes in bioavailability, binding of drugs to plasma proteins and drug metabolism.
2.3	Show the ability to use computers and technology in searching the web.
3	Values
3.1	Demonstrate professionalism a capacity for self evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement in the responsible, committed compassionate practice of dentistry

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
Building Blocks	Basic Sciences	Introduction to Pharmacology in Dentistry Overview of Drugs Classification	1	Lecture
		Pharmacodynamics	1	Lecture
		Pharmacokinetics of Absorption & Distribution	1	Lecture

The Dentist	ICD - Pain Control	Factors Affecting Drugs Response	1	Lecture
		Unwanted Effects of Drugs	1	Lecture
		Anesthesia: General	1	Lecture
		Anesthesia: Local	1	Lecture
		Hypnotics (Sedatives & Anti-anxiety)	1	Lecture
		Narcotics	1	Lecture
		Analgesics, their abuse, potential complications and tolerance.	1	Lecture
		Local Control of Pain	1	Lecture
		Pain Control	1	Lecture
		Local Anesthesia (SDL)	2	Interactive session
The Patient	The Body System / Pharmacology of NS	Antipsychotic	1	Lecture
		Antidepressants	1	Lecture
		Antiepileptic	1	Lecture
		CNS stimulants	1	Lecture
		Introduction to Pharmacology of the Autonomic Nervous System	1	Lecture
		Adrenergic: Agonist	1	Lecture
		Cholinergic: Agonist	1	Lecture
		Cholinergic: Antagonist	1	Lecture
		Neuromuscular Blocking Agents	1	Lecture
		Pharmacology of the Nervous System	1	Lecture
	The Body System / Pharmacology of IBLs	Prostaglandins	1	Lecture
		Histamine & Antihistamines 5HT (Antiemetics)	1	Lecture
		NSAIDs	1	Lecture
		Corticosteroids & its Antagonist	2	Interactive session

		Immuno-suppressive	1	Lecture
		Drugs to Treat Anemia	1	Lecture
		Pharmacology related the IBS	1	Lecture
		Introduction: Antimicrobial Therapy in Dentistry	1	Lecture
		Antimicrobials: Cell Wall Inhibitors	1	Lecture
		Antimicrobials Protein Synthesis Inhibitors	1	Lecture
		Applied Antimicrobial Therapy, in Collaboration with Oral Medicine Staff	1	Lecture
		Antifungal Drugs	1	Lecture
		Antimicrobials	1	Lecture
	The Head & Neck / Pharmacology of Dental Hard Tissue	Anti-Caries Agents	1	Lecture
	The Head & Neck / Pharmacology of Gingiva and Peridontium	Anti-Plaque and Anti-Gingivitis Agents (Tooth Paste, Mouth Wash, Etc.)	1	Lecture
		Tutorial	2	Interactive session
The Patient	The Body System / Pharmacology of Neoplasia	Anti-Cancer Drugs	1	Lecture
	The Body System / Pharmacology of CVS	Anti-Hypertensives	1	Lecture
		Diuretics	1	Lecture
		Anti-Angina	1	Lecture
		Drugs to Treat CHF	1	Lecture
		Anticoagulant & Thrombolytic	1	Lecture
		Antiplatelets	1	Lecture
		Anti-Hyperlipidemic	1	Lecture
	The Body System / Pharmacology of RS	Drugs to Treat Bronchial Asthma	1	Lecture

	The Body System / Pharmacology of GIT	Anti-diarrheal & Antacids: H2 Blockers	1	Lecture
		Pharmacology of GIT	1	Lecture
	The Body System / Pharmacology of ES	Insulin	1	Lecture
		Oral hypoglycemic	1	Lecture
		Thyroid	1	Lecture
		Parathyroid	1	Lecture
	The Dentist	Preclinical IP Skills	1	Interactive session
		Tutorial	2	Interactive session
Total				60

	Assessment Activities			Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Core Knowledge and Clinical Relevance	Written-Assessment: MCQs/short essay	1 st sem. W8	5%
	Quiz 2	Core Knowledge and Clinical Relevance	Written-Assessment: MCQs/short essay	2 nd sem. W6	5%
	Quiz 3	Dental Relevance	Written-Assessment: MCQs/short essay	2 nd sem. W12	4%
	Assignment (oral presentation and report)	Dental Relevance and Basics of Prescription Writing and drug interaction	Students must submit an assignment about Dental Relevance and an ideal prescription	2 nd sem. W11	5%
Final Assessments	Midyear Exam	Core Knowledge /Cognitive Skills	Written-Assessment: MCQs and short essay	1 st sem. W16	30%
	Final Year Exam	Core Knowledge	Written-Assessment: MCQs	2 nd sem. W16	50%

		/Cognitive Skills			
Others (Professionalism)	Attendance	Attendance and participation is graded	Based on WTT	1%	
Total					100%

Course name	General Medicine
Course code	MEDD 401
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	General Medicine Department
Course type	Required
Academic year (level)	Fourth Year
Credit hours	2
Contact hours / week	3hr/week
Proposed semester (s)	Full Year
Prerequisite	ANTD 201, PHYD 201, BIO 112, OBCS 334
Course format	Preclinical course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Describe the etiology,clinical presentation, diagnostic tests and management of common systemic diseases
1.2	Recognize the clinical presentation of medical emergencies.
1.3	Define the oral manifestations of systemic diseases
2	Skills
2.1	Analyze the patient's complaints and history.
2.2	Evaluate the common clinical and laboratory tests used to diagnose systemic diseases.
2.3	Create a plan for dental management according to the systemic condition.

2.4	Distinguish some systemic diseases through their oral manifestations
2.5	Perform measurement of all vital signs as well as auscultation of the heart & chest sound using a stethoscope.
2.6	Use the Web to search for relevant information
3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public, and comply with the institutional professional code of conduct

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	DxTP for PCC	Registry of Vital Signs (2 sessions)	2 each session	Practical session
The Patient	The Body System "CVS - in Disease"	CVS – Infective Endocarditis	1	Lecture
		CVS - Ischemic Heart Diseases and Hypertension	1	Lecture
	The Body System "CVS - Oral Manifestations"	Oral Manifestations of Cardiovascular Disorders	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with Cardiovascular Disorders		
		Dental Management of Patients with Cardiovascular Diseases	2	Interactive session-CBL
The Patient	The Body System "Renal S - in Disease"	Renal System -Renal Failure, Transplantation	1	Lecture
	The Body System "Renal S – Oral Manifestations"	Oral Manifestations of Renal Diseases	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with Renal Diseases		
		Dental Management of Patients with Renal Diseases	2	Interactive session-CBL

The Patient	The Body System "GIT - in Disease"	GIT System - Hepatitis	1	Lecture
		GIT System - Inflammatory Bowel Diseases (IBD) & Peptic Ulcer	1	Lecture
	The Body System "GIT - Oral Manifestations"	Oral Manifestations of GIT Diseases	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with GIT Diseases		
		Dental Management of Patients with GIT Diseases	2	Interactive session-CBL
The Patient	The Body System "NS - in Disease"	CNS - Epilepsy	1	Lecture
	The Body System "NS - Oral Manifestation"	Oral Manifestations of Neurological Disorders	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with Neurological Disorders		
		Dental Management of Patients with Neurological Disorders	2	Interactive session-CBL
The Patient	The Body System "RS - in Disease"	Respiratory System - Bronchial Asthma & COPD	1	Lecture
		Respiratory System - TB	1	Lecture
	The Body System "RS - Oral Manifestations"	Oral Manifestations of Respiratory Diseases	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with Respiratory Diseases		
		Dental Management of Patients with Respiratory Diseases	2	Interactive session-CBL
The Patient	DxTP for PCC	Respiratory and Heart Sounds	2	Practical session
	The Body System "ES - in Disease"	Endocrine System - Pituitary Gland Diseases	1	Lecture

		Endocrine System - Adrenal Gland Diseases	1	Lecture
		Endocrine System – Thyroid and Parathyroid Gland Diseases	1	Lecture
		Endocrine System – Diabetes	1	Lecture
The Patient	The Body System "ES - Oral Manifestations"	Oral Manifestations of Endocrine Diseases	1	Lecture
The Dentist	PCC - Special Care and Management of Special Need	Dental Management of Patients with Endocrine Diseases		
		Dental Management of Patients with Endocrine Diseases	2	Interactive session-CBL
The Patient	The Body System "IBLS - in Disease"	IBLS - Red Blood Cell Disorders (Anemias)	1	Lecture
		IBLS - Leukemia and Lymphomas	1	Lecture
		IBLS - Bleeding Disorders	1	Lecture
	The Body System "IBLS - Oral Manifestations"	Oral Manifestations of Hematologic Diseases	1	Lecture
The Dentist	PCC- Special Care and Management of Special Need	Dental Management of Patients with Hematologic Diseases		
	PCC- Special Care and Management of Special Need	Dental Management of Patients with Hematologic Diseases, and Bleeding Disorders	2	Interactive session-CBL
The Patient	Neoplasia	Cancer Patients and Chemotherapy	1	Lecture
	Behavioral Sciences	Behavioral Medicine	1	Open Discussion
The Dentist	DxTP for PCC	Assessment of Practical Skills (2 Sessions)	2	Practical Exam
		Lab sessions	44	Lab session
Total				90

	Assessment activities			Week Due	Proportion of Total Assessment
Continuous Assessments	Quiz 1	Interprofessional Knowledge/Cognitive Skills and Dental Relevance	Paper-Based: MCQs	1 st sem. W10	10%
	Quiz 2		Paper-Based: MCQs	2 nd sem. W7	10%
	Practical Requirements	Mandatory Interprofessional Skill While being marked, student will receive ample assistance and feedback on their performance	Registry of Vital Signs - Skills Lab training session Each student has to successfully to register vital signs. If the student failed one task, then he/she has to redo the task again until it is successfully done. Number of repetition has to be reported in your log sheet and it will not affect your mark.	Based on WTT	5%
			Respiratory and Heart Sounds - Skills Lab training session Each student has to successfully to register vital signs. If the student failed one task, then he/she has to redo the task again until it is successfully done. Number of repetition has to be reported in your log sheet and it will not affect your mark.		5%
			Interprofessional Collaboration and Hospital Rotation Each student is required to pair up with Medical Student. Visit hospitalized patient in the medical ward.	Throughout the year	10%

			Fill patient condition report for and provide oral health education. And write a brief reflection on the experience		
	In-Class Activity	Dental Application of Medical knowledge	In-class group activity of the Interactive/CBL session of protein module	Based on WTT	5%
	Electronic Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs and Short Answers	1 st sem. W16	10%
	Final Year Exam	Interprofessional Knowledge/Cognitive Skills	Paper 1: MCQs	2 nd sem. W17	20%
		Oral Manifestation and Dental Management of Systemic Diseases	Paper 2: MCQs and Short Answers		20%
	Objective Structured Clinical Examination (OSCE)	Interprofessional Skill*	OSCE Station*: Designed to assess student ability to “Measure Vital Signs”	2 nd sem. W11	5%
			Your competence is assessed based on your ability to perform the task and your humane interaction with the simulated specimen (act like it’s a real patient)		
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFDD rules and regulations			(minus) 2%

Total	100%
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Course name	General Surgery, ENT & General Anesthesia
Course code	SURD 401
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	General Surgery Department
Course type	Required
Academic year (level)	Fourth Year
Credit hours	2
Contact hours / week	3hr/week
Proposed semester (s)	Full Year
Prerequisite	ANTD 201
Course format	Preclinical course

Course Learning Outcomes (CLOs)	
1	Knowledge and understanding
1.1	Describe patient assessment & preparation before surgery and immediate and delayed care after surgery, including fluid therapy in surgical patients, types of IV fluids and causes & manifestations of fluids and electrolytes disturbances
1.2	Classify types of surgical hemorrhage, hemostasis, shock, wound healing and surgical infections with description of causes , manifestations and management.
1.3	Describe epidemiology and different classifications of cleft palate, as well as types of head and neck swellings and injuries, nasal, sinus, pharyngeal and parapharyngeal diseases related to dentistry
1.4	Describe types of general anesthesia, indications and limitations of conscious sedation and different pain treatment modalities used in dental practice
1.5	Identify materials and instruments used for local and general anesthesia, suturing, biopsy, and incision and drainage of infections.
2	Skills
2.1	Discuss the diagnosis and management of shock, surgical infections, sino- nasal diseases, head and neck trauma and cleft palate

2.2	Discuss the pathophysiology of acute and chronic pain and the difference between the conscious sedation and general anesthesia and their need in dentistry
2.3	Perform general and local examinations of the head and neck , peripheral intravenous line insertion , wound suturing and abscess incision and drainage
2.4	Communicate effectively both verbally & in writing with the patients explaining pre- & post-operative instructions to manage patients' fear and anxiety
2.5	Use the web to search for relevant information
2.6	Manage effectively medical and dental emergency situations encountered in the dental practice, assume responsibility that the patient has received appropriate care and refer patient as appropriate

3	Values
3.1	Demonstrate altruism, honesty, integrity and respect with patients, peers, colleagues, supervisors, and the public.
3.2	Self-assess, reflect, discuss, provide, and receive constructive criticism; as well as understand their own learning needs and seek continuous professional development
3.3	Perform infection control, and accurately document proper health record system

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	PCC - Pain Management	Local Anesthesia Training	3	Clinical Session
	PCC- Diagnosis & Treatment Planning	Introduction to Diagnosis & Treatment Planning in Dentistry	2	Lecture
		Who is your Patient (Profiling and ASA Classification)		
	PCC-Special Care and Management of Special Need	Medical Emergencies	2	Clinical Session
		Preoperative Care of Surgical Patient	1	Lecture
		Postoperative Care of Surgical Patient	2	Lecture
	Preclinical Inter-professional Skills	Suturing Technique (6 sessions)	12	Practical session
	PCC - Special Care and Management of Special Need	Fluids and Electrolyte Therapy	2	Lecture
		Dealing with Shock	2	Lecture
		Surgical Wound Care, Healing & Management	2	Lecture

		Surgical Hemorrhage and Hemostasis	2	Lecture
	PCC - Special Care and Management of Special Need	Surgical Infections and Antibiotics	2	Lecture
	H & N	Head and Neck Swellings	2	Lecture
The Patient	Craniofacial Development	Problems Associated with Cleft Lip and Palate	2	Lecture
The Community	Service Learning	Introduction to Hospital Dentistry	1	Lecture
	PCC - Pain Management	Conscious Sedation	2	Lecture
		IM/SC Injection (3 sessions)	6	Practical Session
		General Anesthesia I	1	Lecture
		General Anesthesia II	1	Lecture
		Anesthesia Emergencies	2	Lecture
		Pain Management	2	Lecture
	Preclinical Inter-professional Skills	Incision and Drainage (3 sessions)	6	Practical session
	H & N - ENT	Sino-Nasal Diseases & Referred Otagia	2	Lecture
		Parapharyngeal Space Infections	2	Lecture
		Sleep Apnea/ Nasal Obstruction	2	Lecture
The Dentist	Preclinical Inter-professional Skills	Biopsy (3 sessions)	6	Practical session
The Patient	H & N - ENT	Head and Neck Infections (CBL)	2	Interactive session
The Dentist	PCC - Special Care and Management of Special Need	The Role of the Dentist in OSA (CBL)	3	Interactive session
	Preclinical Inter-professional Skills	Review Techniques	4	Practical session
	Revision and Feedback	Divided between S1, S2	4	Revision and Feedback
	SDL		8	SDL

Total	90
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Type	Assessment Activities*			Assessment Timing (in Week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Interprofessional Knowledge/Cognitive Skills and Surgical Care for Special Need	Paper-Based: MCQs	1 st sem. W9	5%
	Quiz 2		Paper-Based: MCQs	2 nd sem. W10	5%
	Practical/ Clinical Requirements	Mandatory Interprofessional Skill While being marked, student will receive ample assistance and feedback on their performance	Delivery of Local anesthesia – Clinical training session Each student has to successfully to deliver LA. If the student failed one task, then he/she has to redo the task again until it is successfully done. Number of repetitions has to be reported in your log sheet and it will not affect your mark.	Based on WTT	2%
			Management of Medical Emergency – Clinical Objective Structured Clinical Rotations Each student has to attend the session. Your attendance has		
					3%

			to be reported in your log sheet		
			<p>Suturing Techniques - Skills Lab training session</p> <p>Each student has to successfully perform suturing on simulated specimen. If the student failed one task, then he/she has to redo the task again until it is successfully done. Number of repetitions has to be reported in your log sheet and it will not affect your mark.</p>	Throughout the year	5%
			<p>IM/SC Injection - Skills Lab training session</p> <p>Each student has to successfully perform IM/SC Injection on simulated specimen. If the student failed one task, then he/she has to redo the task again until it is</p>		5%

			successfully done. Number of repetitions has to be reported in your log sheet and it will not affect your mark.		
			Incision and Drainage - Skills Lab training session Each student has to successfully perform Incision and Drainage on simulated specimen. If the student failed one task, then he/she has to redo the task again until it is successfully done. Number of repetition has to be reported in your log sheet and it will not affect your mark.		5%
			Biopsy - Skills Lab training session Each student has to successfully perform Incision and Drainage on simulated specimen. If the student failed one task, then he/she has to redo the task again until it is successfully done.		5%

			Number of repetition has to be reported in your log sheet and it will not affect your mark.		
		Hospital Rotation	Interprofessional Collaboration and Hospital Rotation Each student is required to pair up with Medical Student. Visit hospitalized patient in the medical ward. Fill patient condition report for and provide oral health education. And write a brief reflection on the experience	Throughout the year	10%
	Student Logbook	Keeping records of own experience		Throughout the year	Affect marks assigned to clinical requirements and MPEs
Final Assessments	Midyear Exam	Knowledge/Cognitive Skills	Paper-Based: MCQs and Short Answers	1 st sem. W16	10%
	Final Year Exam	Interprofessional Knowledge/Cognitive Skills	Paper 1: MCQs	2 nd sem. W17	10%
		Surgical Care for Special Need	Paper 2: MCQs and Short Answers		20%

	Objective Structured Clinical Examination (OSCE)	Pain Control Skill*	<p>OSCE Station 1*: Designed to assess student ability to “Local Anesthesia”</p> <p>Student will be assessed on:</p> <ol style="list-style-type: none"> 1. knowledge about the appropriate anesthetic 2. locating and naming anatomical landmark 3. procedural skills and delivery of local anesthetic <p>Your competence is assessed based on your ability to perform the task and your humane interaction with the simulated specimen (act like it’s a real patient)</p>	2 nd sem. W11	5%
		Surgical Skills*	<p>OSCE Station 2*: Designed to assess student ability to “Suturing Technique”</p> <p>Student will be assessed on:</p> <ol style="list-style-type: none"> 1. Instruments identification 2. procedural skills <p>Your competence is assessed based</p>		5%

			<p>on your ability to perform the task and your humane interaction with the simulated specimen (act like it's a real patient)</p>		
			<p>CE*: Designed to assess student ability to "Incision and Drainage"</p> <p>Student will be assessed on:</p> <ol style="list-style-type: none"> 1. Instruments identification 1. procedural skills 1. rationale of each step <p>Your competence is assessed based on your ability to perform the task and your humane interaction with the simulated specimen (act like it's a real patient)</p>		5%
Professionalism	Ethics and Professionalism	Deducted from total mark in case of breach of code of professional conduct and student is subjected to disciplinary action based on KAUFU rules and regulations			(minus) 2%
Total					100%

Course name	Pharmacotherapeutics
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Course code	PHAD 501
Program	Bachelor of Dental Medicine and Surgery
Faculty	Medicine
Department / Division	Pharmacology Department
Course type	Required
Academic year (level)	Fifth Year
Credit hours	2
Contact hours / week	2 hours /week
Proposed semester (s)	First Semester
Prerequisite	PHAD 301
Course format	Didactic course

Course Learning Outcomes (CLOs)

1	Knowledge and understanding
1.1	Review the mechanism of action, form of preparation, dosage control, drug interaction, clinical uses, contraindications, adverse effects, drug resistance, toxicity, withdrawal symptoms, prevention, and management of side effects for commonly used drugs in dental practice.
1.2	Identify the antimicrobial drugs used in orofacial infections; medications used for orofacial pain, and medications used for the management of some common oral mucosal immune-mediated disorders, and salivary gland disorders.
1.3	Identify drug kits used in different systemic emergencies that may be encountered in the dental clinic
2	Skills
2.1	Formulate prescription forms for some selected dental clinical conditions, in particular oral ulcerations, and oral fungal, viral, and bacterial infections, within the scope of the general dentist.
2.2	Predict the adverse effects of drugs/drug-drug used in dental practice, with designing a strategy for drug prescription for dental patients with systemic considerations.
2.3	Communicate effectively with colleagues and other health care professionals through prescription writing
2.4	Select drugs and their administration methods in dental practice, dental and medical emergencies, pain, fear and anxiety including antibiotics, antiviral and antifungal agents, local and general anesthetics, and hypnotics,
2.5	Use web in performing web-based assignment, CBLs and take home exams

3	Values
3.1	Demonstrate integrity, ethics and respect with peers, and supervisors, showing teamwork and responsibility in submitting assignments on the due date.
3.2	Demonstrate a capacity for self-assessment, moral reflection, and ethical reasoning to form the basis for a self-directed, lifelong engagement and professional development.

List of Topics

Track	Theme / Module	Topics	Contact Hours	Teaching Strategy
The Dentist	CCP - Oral Medicine & Clinical Pharmacology	Prescription writing	2	Lecture
		Drug-Drug Interaction	2	Lecture
	CCP - Dental Pain, Urgencies and Emergencies Module	Local Anesthetics (pharma and dental staff collaboration)	2	Lecture
	CCP - Oral Medicine & Clinical Pharmacology	Overview of antibacterial, antiviral and antifungal agents (1)	1	Lecture
		Overview of antibacterial, antiviral and antifungal agents (2)	1	Lecture
		Corticosteroids	2	Lecture
The Patient	H & N – Oral Mucosal and Underlying Osseous Structures “In Disease”	Ulcerative, Vesicular, and Bullous Lesions	counted in OBCS 556	Integrated CBL with OBCS 556 and OP
		White and Red Oral Lesions (Hosted by OM: OBCS 556)	counted in OBCS 556	Integrated CBL with OBCS 556 and OP
	CCP - Oral Medicine & Clinical Pharmacology	NSAIDS	2	Lecture
The Dentist	CCP - Oral Medicine & Clinical Pharmacology	Benzodiazepines and Narcotics (pharma and dental staff collaboration)	2	Lecture
	CCP - Special Care and Management of Special Need	Drugs Used in Medical Emergencies in the Dental Office	2	Lecture

	CCP - Oral Medicine & Clinical Pharmacology	Considerations of Patients in Dental Practice (1)	1	Lecture
		Clinical Considerations of Patients in Dental Practice (2)	1	Lecture
		Therapeutics in Oral Medicine	2	Lecture
	CCP - Dental Pain, Urgencies and Emergencies Module	Orofacial pain & TMDs (Hosted by OBS 556)	counted in OBCS 556	Integrated CBL with OBCS 556
Humanism	Feedback and Conflict Resolution	Assignment feedback for prescription writing	2	Interactive Session
		Interactive session for e-portfolio	6	interactive session
		Continuous assessment with feedback	2	Quizzes
Total	30 Hours			

Type	Assessment Activities *			Assessment Timing (In week No)	Percentage of Total Assessment Score
Continuous Assessments	Quiz 1	Core Knowledge and Clinical Relevance	Test-based written exam	1 st sem. W8	10%
	Assignment	Clinical Relevance and Prescription Writing	Written assignment	2 nd sem. W11	5%
		Integrated (Dental Relevance)	Take-home Case-based Assignment	Based on WTT	15%
	In class activity	Core knowledge Cognitive skills	Interactive discussion	based on WTT	20%
Final Assessments	Final Year Exam	Core Knowledge/Cognitive Skills	Test-based written exam	1 st sem. W15	50%
Professionalism	Attendance	Interactive Sessions for Dental Relevance	violation of the attendance policy	Weekly	(minus) 2%

Total					100%