

Republic of Yemen
21 September University Of Medical & Applied Sciences



FACULTY OF DENTISTRY
Bachelor of Dental Surgery (B.D.S)
Program Specification

Preparation Committee:

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Program Coordinator:

Prof. Abdulwahab Al-kholani

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1. Program Identification and General Information:

1	Scientific name of the program:	Bachelor of Dental Surgery (B.D.S)
2	Total credit hours required to award the degree	213 hours
3	Number of years needed for completion of the program:	Five Years
4	The body responsible for granting the degree:	21 September University
5	The body responsible for the program:	Faculty of Dentistry
6	Award granted on completion of the program:	Bachelor of Dental Surgery (B.D.S)
7	Study system:	Integrated (Semester)
8	Study Language of the Program:	English Language
9	Entry requirements:	Secondary School (Scientific Section) & Acceptance Exam
10	Departments participating in the program:	Many departments participated 5 departments (Annex 6)
11	Starting year of the program:	2024/2025
12	Study methods in the program:	Full time
13	Location of Delivery:	University campus
14	The program resources:	Student fees
15	Minimum grade requirements:	As per regulations of the Ministry of Higher Education and Scientific Research
16	Other admission requirements:	According to the university rules and regulations.
17	Date of current development of the program:	February. 2024
18	Prepared by:	1- Prof. Muta'a Abuarij. 2- Prof. Abdulwahab Al-kholani 3- Assoc. Prof. Muneer Alwesabi 4- Assis. Prof. Jamil Mujalli 5- Assis. Prof. Yaser A. S. Alrubaidi 6- Dr. Yaser Basheer.
19	Program coordinator:	Prof. Abdulwahab Al-kholani

2. Introduction:-

This Program for The Faculty of Dentistry at 21 September University has adopted the Semester system as a teaching system through which it will achieve its goal of graduating medical staff with high academic qualifications and skills to serve the community and alleviate its suffering.

It is offered for five academic years, The studying period are divided into two phases:

- The first phase incorporation of the basic and applied sciences (preclinical phase), which extends over a period of three years in which medical courses are taught in an interdisciplinary manner (organ system based) in order to enhance and comprehend the student's knowledge.
- The second stage is the clinical science stage, which lasts over two years, during which the student's clinical skills are built.

Promising Jobs:

The graduated doctor will able to work in different filed as: -

- 1- Public and private hospitals.
- 2- Private clinics.
- 3- Academic fields.
- 4- Health organizations

3. University Vision, Mission, Values, Objectives, and Goals:

3.1-University vision:

A contemporary University with National Responsibility and a Faith Identity.

3.2-University mission:

Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.

3.3-University Core values:

- 1- Leadership and influence
- 2- Excellence
- 3- Creativity
- 4- Teamwork

3.5-Strategic goals:

1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.
2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.
3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.
4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.
5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

4. Faculty Vision, Mission, Values, and Objectives:

4.1-Vision:

A contemporary faculty of dentistry with National Responsibility and a Faith Identity.

4.2-Mission:

Share the Leading of the transformation in delivery of dental care with high quality by setting a standard of excellence in education of medical and dentistry research with dental technology in a way that meets the needs of Yemeni society, its specificity and regional influence.

4.3-Values:

1. Professional
2. Continuous Education.
3. Appreciation of Science and Scientists.
4. Transparency and Accountability.
5. Team Work.

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4.4-Faculty Objectives(Strategic):

1. Ensuring the application of quality standards and setting standards of excellence in dentistry sciences, dental technology, scientific research and community service.
2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.
3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of dentists, dental technicians, specialists, consultants, thinkers, businessmen and good citizens with high efficiency.
4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally in dentistry and dental technology.
5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional dentistry practices to benefit from them locally and regionally.

5. Program Mission and Objectives:

5.1- Program Mission:

Providing the community with distinguished dentists with human values and who play an educational, training, research and health role that qualifies them for professional competence at the highest levels, and who are capable of decision making and continuous self-learning, providing quality dentistry care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.

5.2-Program Objectives- :

This program aims to:

1. Graduating competent dentists who possess the basic medical, dental knowledge and skills to practice dentistry efficiency and serve the community.
2. Improve the practical and clinical skills with advanced scientific methods.
3. Develop the students diagnostic and therapeutic skills in solving various oral health problems.
4. Develop students critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.
5. Develop and motivate the students to use technology and artificial intelligence in dentistry.

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6. Prepare graduates to become able Integrate into a team work with sincerity and integrity
7. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.
8. Enhancing the principles of professional, ethical and national responsibility among students.

6. Program Standards & Benchmarks:

6.1- Program Standards: -

A. Academic Standards:

- 1- National Academic Reference Standards (NARS) for Undergraduate Dentistry Education Programs (V.2018).
- 2- National Accreditation Standards for Faculties of Medicine in Yemen (V.2022) [Compliant with the BASIC MEDICAL EDUCATION WFME GLOBAL STANDARDS FOR QUALITY IMPROVEMENT The 2020 Revision]

B. Strategies :-

- 1- University Strategy .
- 2- Faculty Strategy .

C. Rules and Regulation :-

- 1- Higher Education rules
- 2- Student affairs regulation.

Annex- 2, Academic Standards Curriculum Criteria of Accreditation Board

[Annex- 3. Unified Regulations for Student Affairs, Ministry of Higher Education and Scientific Research](#)

6.2- Program Benchmarks:

- 1- Sana'a University. Dentistry College -Yemen
[https:// su.edu.ye/](https://su.edu.ye/)
- 2- University of Science and Technology. Dentistry College Yemen
<https://ust.edu.ye/>
- 3- Alexandria University, Dentistry College -Egypt
<https://dent.alexu.edu.eg/>
- 4- The University of Jordan, Dentistry College -Jordan

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<https://dentistry.ju.edu.jo>

5- McGill University. Faculty of dental medicine and oral health sciences -Canada
<https://www.mcgill.ca/dentistry/>

6- Newcastle University. Faculty of Medical Sciences (School of Dental Sciences)-
United Kingdom
<https://www.ncl.ac.uk>

7. Graduate Attributes:

Upon successful completion of an undergraduate Dentistry program, graduates will be able to:

1. Dental Healthcare provider: providing patient-centered high-quality care efficiently, effectively and safely within their defined scope and limits of their expertise and within the context of healthcare system.
2. Professional: Adhering to ethical, professional, and legal standards, demonstrating a commitment to the patients, profession and society, and to their wellbeing and lifelong personal and professional development.
3. Scholar: Using Dental knowledge and health research to meet the needs of patients, healthcare system, and society.
4. Health Advocate: contributing to prevent illness and promote the health and well-being of their patients, and society and controlling the infection with radiation protection.
5. Communicator & Collaborator: Communicating effectively with patients and their families, healthcare team and the society, and collaborating inter professionally, working as both a team member and a leader.
6. Apply critical thinking and evidence-based problem solving when providing patients' care

8. Program Intended Learning Outcomes (PILOs):

A. KNOWLEDGE AND UNDERSTANDING

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- A1.** Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
- A2.** Explain the structure and function of the human body in health and disease related to the practice of dentistry.
- A3.** Identify the rules and ethics governing dental practices.
- A4.** Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.
- A5.** Show an understanding of the psychological, cultural and social factors that have implications on oral disease management and prevention.
- A6.** Explain of the digital technology in dentistry & Explain the principles of evidence-based dentistry and its relation to scientific research

B. COGNITIVE/INTELLECTUAL SKILLS

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- B1.** Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
- B2.** Evaluation of critical thinking and evidence-based problem solving when providing patient's care.
- B3.** Prioritize patient's treatment needs and formulate an appropriate treatment plan.
- B4.** Construct preventive strategies at different levels according to the targeted individual and community needs.
- B5.** Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.
- B6.** Analyze of Artificial intelligence (AI) and digital technology in dentistry to solve the problems of oral and dental surgery and recreate the reasonable solutions.

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8. Program Intended Learning Outcomes (PILOs):

C. PRACTICAL AND PROFESSIONAL SKILLS:

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- C1. Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment.
- C2. Detect pathological conditions related to the dental practice.
- C3. Use infection control protocol and radiation protection regulation according to international standards.
- C4. Apply comprehensive clinical practices & Apply preventive measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly.
- C5. Plan when, how and where to refer a patient to a specialist based on clinical assessment.
- C6. Ability to assess the risk of medical emergencies and be competent in their management within the dental practice setup.
- C7. Practicing Artificial intelligence (AI) and digital technology in dentistry.

D. GENERAL / TRANSFERABLE SKILLS

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- D1. Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
- D2. Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means ethically.
- D3. Work individually and in team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D4. Use advanced information and communication technologies to enrich and diversify professional experience.
- D5. Exhibit leadership and Management skills to set treatment priorities and work to prescribed time limits.
- D6. Maintain full and accurate clinical records (manual and electronic).
- D7. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice.

[Annex- 5, Survey on Mission and Objectives of the Program and Similar Accredited Programs and its Alignment to the University, Faculty, and Department Missions and](#)

[Annex-7, Alignment of Program Intended Learning Outcomes \(PILOS\) to Program Objectives \(POs\)](#)

[Annex- 8, Mapping of Program Objectives to the Faculty Mission](#)

[Annex- 9, Survey of PILOs for Similar Accredited Programs at National and International universities](#)

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9. Teaching and Learning Strategies:

- Interactive lectures
- Seminars
- Practical session
- Training
- Discussion
- Self-learning
- Presentation
- Case study (CBL)
- Problem Based Learning (PBL)

Teaching Strategy	Description
Interactive lectures	These are interactive lectures weekly conducted in the class and supported with variety of teaching formats including, lectures and multimedia presentations, use of whiteboard to solve examples and illustrating different tasks and problems introduced by the presentation, and class discussions, in which concepts, approaches, and case studies are presented, explored, and shown students what they need to know.
Seminars	Discussion of specific topic by group of students under the observation of the lecturer.
Practical session	In highly equipped labs the student will trained by practicing certain topic.
Training	This training preformed in the hospital by such teaching strategy the students improve their clinical skills.
Discussion	It is interactive measure by which the lecturer explores the level of understanding the subject among students
Self-learning	Improving the knowledge by the student oneself without assistants .
Office hours	By which the lecturer discusses and answer for students' questions.
Presentation	An activity by which the student describes, explain something Infront of group of students.
Case studies (CBL)	Study the clinical cases in depth, training the details of history taking, examination, analysis the gathering data and obtaining diagnosis.

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Teaching Strategy	Description
Problem Based Learning (PBL)	A detailed analysis is made of some specific, usually compelling event or series of related events so that learners will better understand its nature and what might be done about it.

10. Assessment Methods:

- Written exam (mid and final terms and quizzes),
- Final practical exam
- OSCE & OSPE
- Final oral exam
- Research
- Homework

Assessment Strategy	Description
Written exam (mid and final terms and quizzes)	Mid-term test is conducted in the 8 th week and final exam is conducted at the end of each course. Both tests are closed book, closed notes. quizzes are related to past as well as topics discussed in the period. This helps students develop self-confidence, readiness, and accuracy in major exams.
Final practical exam	Final practical exam is carried on the end of each course in order to examine the student's practical skills.
OSCE & OSPE	OSCE/OSPE stands for "Objective Structured Clinical Examination." OSCEs/OSPEs are very helpful in medical education because they allow a student to practice and demonstrate clinical skills in a standardized medical scenario.
Final oral exam	It's part of the final assessment of the student knowledge by which the examiner gives the question in spoken form.
Research project	At the end of study years, the students have to work in research project in order to achieve bachelor degree.
Homework	Individual assessment

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11. Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:

PILOs	Teaching Strategy	Assessment Methods
Knowledge and Understanding A1, A2, A3, A4, A5, A6	<ul style="list-style-type: none"> - Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Office Hours - Self learning 	<ul style="list-style-type: none"> -Quizzes - Written Exam -Final Oral Exam -Final Clinical Exam
Intellectual Skills B1, B2, B3, B4, B5, B6	<ul style="list-style-type: none"> -Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Self Learning - PBL 	<ul style="list-style-type: none"> -Written Exam -Final Oral Exam -Final Clinical Exam -Final Practical Exam
Professional & practical skills C1, C2, C3, C4, C5, C6, C7	<ul style="list-style-type: none"> -Practical session . -Training -Case Study (CBL) - PBL 	<ul style="list-style-type: none"> -Final Clinical Exam - Final Practical Exam - OSCE -OSPE
General & Transferable Skills D1, D2, D3, D4, D5, D6, D7	<ul style="list-style-type: none"> - Seminars - Discussion - Case Study (CBL) - Self Learning - Presentation - PBL 	<ul style="list-style-type: none"> - Homework - Research - Oral Discussion

12. Project Assessment:

Each project will be assessed as follows:

Item	Marks Distribution
Research Project	70
Discussion	30
Total	100

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13. Training Course Assessment:

The training course will be assessed through:

- Log Book
- Case discussion
- Final clinical Exam
- OSCE

14. Intended Learning Outcomes Mapping:

See below Annexes.

Annex- 10, Alignment of Program PILOs with Council of Accreditation and NARS Standards

15. Program Structure:

No	Requirements		No. of Courses	Credit Hours	Rational Weight %
1	University Requirements	Compulsory	8	17	8%
		Elective	-	-	
2	Basic Requirements	Compulsory	-	-	
		Elective	-	-	
3	Faculty Requirements	Compulsory	21	50	23.5%
		Elective	-	-	
4	Department Requirements	Compulsory			
		Elective			
5	Program Requirements	Compulsory	62	146	68.5%
		Elective	-	-	
	Total:		91	213	100%

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15.1. University Requirements

Compulsory Courses (8 course/ 17 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1.	1/1	A21U111	Islamic culture	ثقافة اسلامية	2	2	0	0	NONE
2.	1/1	A21U112	National culture	ثقافة وطنية	2	2	0	0	NONE
3.	1/1	A21U113	English Language 1	لغة انجليزية 1	2	2	0	0	NONE
4.	1/1	A21U114	Arabic Language 1	لغة عربية 1	2	2	0	0	NONE
5.	1/1	A21U115	Computer Skills	مهارات الحاسوب	3	2	2	0	NONE
6.	1/2	A21U121	Arabic Language 2	لغة عربية 2	2	2	0	0	Arabic Language 1
7.	1/2	A21U122	English Language 2	لغة انجليزية 2	2	2	0	0	English Language 1
8.	1/2	A21U124	Arab and Israeli conflict	الصراع العربي الإسرائيلي	2	2	0	0	NONE
Total					17	16	2	0	

15.2. Faculty Requirements

Compulsory Courses (21 courses/ 50 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1			General Biology and Genetics	علم الأحياء العامة والوراثة	3	2	2	---	---
2			General Chemistry	الكيمياء العامة	3	2	2	---	---
3			General Histology	علم الأنسجة العام	3	2	2	---	---
4			General Anatomy & Embryology	علم التشريح والاجنة	3	2	2	---	---
5			Medical physics	الفيزياء الطبية	3	2	2	---	---
6			Head and Neck Anatomy	تشريح الرأس والعنق	3	2	2	---	General Anatomy
7			Medical statistics	إحصاء طبي	2	2			

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8				Human Physiology	علم وظائف الأعضاء	2	2	---	---	---
9				General Internal Medicine (dermatology and venereal disease)	باطنية عامة	2	2			
10				Microbiology	علم الاحياء الدقيقة	3	2	2	---	---
11				Immunology	علم الأمراض المناعية	2	2	---	---	---
12				Biochemistry	الكيمياء الحيوية	3	2	2	---	---
13				Principle Health Management and Communication Skills	أسس الإدارة الصحية ومهارات الاتصال	2	2	---	---	---
14				Medical Psychology	علم النفس الطبي	1	1	---	---	---
15				Law and Ethics in Dentistry	تشريعات واخلاقيات طب الأسنان	2	2	---	---	---
16				General Pathology	علم الامراض العام	3	2	2	---	---
17				General Surgery (ENT +ophthalmology)	الجراحة العامة	2	2	---	---	---
18				Pharmacology	علم الأدوية	2	2	---	---	Biochemistry
19				Anesthesia	تخدير	1	1			
20				Forensic medicine	الطب الشرعي	2	2		---	---
21				Research 3Methodology & Graduation Research	مناهج البحث العلمي ومشروع بحث التخرج	3	2	---	3	Medical statistics
Total						50	40	8	3	

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15.3. Program Major

Compulsory Courses (62 course / 146 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
1			Dental Anatomy (1)	تشريح الأسنان (1)	3	2	2	---	---
2			Introduction and Terminology to dentistry	مقدمة ومصطلحات طب الأسنان	2	2			
3			Dental Anatomy (2)	تشريح الأسنان (2)	3	2	2	---	Dental Anatomy (1)
4			Dental Materials (1)	المواد السنية (1)	3	2	2	---	---
5			Dental Materials (2)	المواد السنية (2)	3	2	2	---	Dental Materials (1)
6			Oral Histology (1)	علم أنسجة الفم (1)	2	1	2	---	---
7			Oral Histology (2)	علم أنسجة الفم (2)	2	1	2	---	Oral Histology (1)
8			Oral pathology (1)	امراض الفم (1)	2	1	2		
9			Oral pathology (2)	امراض الفم (2)	2	1	2		Oral pathology (1)
10			Removable Prosthodontics (1)	الاستعاضة السنية المتحركة (1)	3	2	2	---	---
11			Removable Prosthodontics (2)	الاستعاضة السنية المتحركة (2)	2	1	2	---	Removable Prosthodontics (1)
12			Removable Prosthodontics (3)	الاستعاضة السنية المتحركة (3)	2	1	---	3	Removable Prosthodontics (2)
13			Removable Prosthodontics (4)	الاستعاضة السنية المتحركة (4)	2	1	---	3	Removable Prosthodontics (3)
14			Removable Prosthodontics (5)	الاستعاضة السنية المتحركة (5)	2	1	---	3	Removable Prosthodontics (4)
15			Operative Dentistry (1)	طب الأسنان التحفظي (1)	3	2	2	---	---
16			Operative Dentistry (2)	طب الأسنان التحفظي (2)	2	1	2	---	Operative Dentistry (1)
17			Operative Dentistry (3)	طب الأسنان التحفظي (3)	2	1	2		Operative Dentistry (2)

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
18			Operative Dentistry (4)	طب الأسنان التحفظي (4)	2	1	---	3	Operative Dentistry (3)
19			Fixed Prosthodontics (1)	الاستعاضة السننية الثابتة (1)	3	2	2	---	---
20			Fixed Prosthodontics (2)	الاستعاضة السننية الثابتة (2)	2	1	2	---	Fixed Prosthodontics (1)
21			Fixed Prosthodontics (3)	الاستعاضة السننية الثابتة (3)	2	1	---	3	Fixed Prosthodontics (2)
22			Fixed Prosthodontics (4)	الاستعاضة السننية الثابتة (4)	2	1	---	3	Fixed Prosthodontics (3)
23			Pre-clinical Endodontics (1)	المعالجة اللبية (1)	3	2	2	---	---
24			Endodontics (2)	المعالجة اللبية (2)	2	1	2	---	Endodontics (1)
25			Endodontics (3)	المعالجة اللبية (3)	2	1	---	3	Endodontics (2)
26			Endodontics (4)	المعالجة اللبية (4)	2	1	---	3	Endodontics (3)
27			Medical emergency in dentistry	طب طوارئ الأسنان	2	1	---	3	---
28			Oral Radiology	اشعة الفم	3	2	2		---
29			Oral Medicine (1)	طب الفم (1)	2	1	---	3	---
30			Oral Medicine (2)	طب الفم (2)	2	1	---	3	Oral Medicine (1)
31			Oral Medicine (3)	طب الفم (3)	2	1	---	3	Oral Medicine (2)
32			Oral Surgery (1)	جراحة الفم (1)	3	2	2	---	---
33			Oral Surgery (2)	جراحة الفم (2)	2	1	2	---	Oral Surgery (1)
34			Oral Surgery (3)	جراحة الفم (3)	2	1	---	3	Oral Surgery (2)
35			Oral Surgery (4)	جراحة الفم (4)	2	1	---	3	Oral Surgery (3)
36			Oral Surgery (5)	جراحة الفم (5)	2	1	---	3	Oral Surgery (4)
37			Periodontics (1)	أمراض الأنسجة الحول سننية (1)	2	1	---	3	
38			Periodontics (2)	أمراض الأنسجة الحول سننية (2)	2	1	---	3	Periodontics (1)

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
				الحول سنوية (2)					
39			Periodontics (3)	أمراض الأنسجة الحول سنوية (3)	2	1	----	3	Periodontics (2)
40			Periodontics (4)	أمراض الأنسجة الحول سنوية (4)	2	1	----	3	Periodontics (3)
41			Pediatric Dentistry (1)	طب أسنان الأطفال (1)	2	1	----	3	----
42			Pediatric Dentistry (2)	طب أسنان الأطفال (2)	2	1	----	3	Pediatric Dentistry (1)
43			Pediatric Dentistry (3)	طب أسنان الأطفال (3)	2	1	----	3	Pediatric Dentistry (2)
44			Pediatric dentistry (4)	طب أسنان الأطفال (4)	2	1	----	3	Pediatric Dentistry (3)
45			Orthodontics (1)	تقويم الأسنان (1)	2	1		3	----
46			Orthodontics (2)	تقويم الأسنان (2)	2	1		3	Orthodontics (1)
47			Orthodontics (3)	تقويم الأسنان (3)	2	1	----	3	Orthodontics (2)
48			Orthodontics (4)	تقويم الأسنان (4)	2	1	----	3	Orthodontics (3)
49			Comprehensive Clinical Practice (1)	علاج الأسنان الشامل (1)	5	2	----	9	----
50			Comprehensive Clinical Practice (2)	علاج الأسنان الشامل (2)	5	2	----	9	Comprehensive Clinical Practice (1)
51			Preventive Dentistry (1)	طب الأسنان الوقائي (1)	2	1	----	3	----
52			Preventive Dentistry (2)	طب الأسنان الوقائي (2)	2	1	----	3	Preventive Dentistry (1)
53			Occlusion and Temporomandibular Disorders	الإطباق السني واعتلالات المفصل الفكي الصدغي	1	1	----	----	----
54			Geriatrics Dentistry	طب أسنان الشيخوخة	1	1			
55			Infection control & Community Dental Health	السيطرة على العدوى وصحة اسنان المجتمع	2	2	---		

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
56			Digital Dentistry (1)	طب الأسنان الرقمي (1)	3	2	2		
57			Digital Dentistry (2)	طب الأسنان الرقمي (2)	3	2		3	Digital dentistry (1)
58			Dental implant (1)	زراعة الاسنان (1)	3	2	2		
59			Dental implant (2)	زراعة الاسنان (2)	3	2		3	Dental implant (1)
60			Dental implant (3)	زراعة الاسنان (3)	3	2		3	Dental implant (2)
61			Esthetics Dentistry (1)	طب الأسنان التجميلي (1)	2	1		3	
62			Esthetics Dentistry (2)	طب الأسنان التجميلي (2)	2	1		3	Esthetics Dentistry (1)
Total					146	84	44	120	

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16. Study Plan: Total Credit Hours = 213 C.H

First Year – First Semester

No	Course Code	English	Arabic	Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1		English Language (1)	اللغة الإنجليزية (1)	2	2	---	---	---
2		Arabic Language (1)	اللغة العربية (1)	2	2	---	---	---
3		Islamic Culture	الثقافة الإسلامية	2	2	---	---	---
4		National Education	الثقافة الوطنية	2	2	---	---	---
5		General Biology and Genetics	علم الأحياء العامة والوراثة	3	2	2	---	---
6		General Anatomy and Embryology	علم التشريح والاجنة	3	2	2	---	---
7		Introduction and Terminology to Dentistry	مقدمة ومصطلحات طب الأسنان	2	2	--	---	---
8		Dental Anatomy (1)	تشريح الأسنان (1)	3	2	2	---	---
9		Medical physics	الفيزياء الطبية	3	2	2	---	---
Total				22	18	8	---	---

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First Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1		English Language (2)	اللغة الإنجليزية (2)	2	2	---	---	English Language (1)
2		Arabic Language (2)	اللغة العربية (2)	2	2	---	---	Arabic Language (1)
3		Computer Skills	مهارات الحاسوب	3	2	2	---	---
4		Arab-Israel Conflict	الصراع العربي الإسرائيلي	2	2	---	---	---
5		Law and Ethics in Dentistry	تشريعات وأخلاقيات طب الأسنان	2	2	---	---	---
6		General Chemistry	الكيمياء العامة	3	2	2	---	---
7		General Histology	علم الأنسجة العام	3	2	2	---	Human Anatomy and Embryology
8		Dental Anatomy (2)	تشريح الأسنان (2)	3	2	2	---	Dental Anatomy (1)
9		Principle Health Management and Communication Skills	أسس الإدارة الصحية ومهارات الاتصال	2	2	---	---	---
Total				22	18	8	---	

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Second Year – First Semester

No	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1		Biochemistry	الكيمياء الحيوية	3	2	2	---	General Chemistry
2		Human Physiology	علم وظائف الأعضاء	2	1	2	---	--
3		Head and Neck Anatomy	تشريح الرأس والعنق	3	2	2	---	Human Anatomy
4		Infection control & Community Dental Health	السيطرة على العدوى وصحة اسنان المجتمع	2	2		---	
5		Dental Materials (1)	المواد السنية (1)	3	2	2	---	---
6		Oral Histology and (1)	علم أنسجة الفم (1)	2	1	2	---	General Anatomy
7		Microbiology	اساسيات الاحياء الدقيقة	3	2	2	---	General Biology and Genetics
8		Removable Prosthodontics (1)	الاستعاضة السنية المتحركة (1)	3	2	2	---	---
9		Medical Psychology	علم النفس الطبي	1	1	---	---	
Total				22	15	14	---	

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Second Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1		Operative Dentistry (1)	طب الأسنان التحفظي (1)	3	2	2		
2		General Pathology	علم الامراض العام	3	2	2	---	General Histology
3		Anesthesia	تخدير	1	1			
4		Removable Prosthodontics (2)	الاستعاضة السنية المتحركة (2)	3	2	2	---	Removable Prosthodontics (1)
5		General Surgery	الجراحة العامة	2	2	---	----	Human Anatomy & Physiology
6		Immunology	علم الأمراض المناعية	2	2	----	----	----
7		Dental Materials (2)	المواد السنية (2)	3	2	2	---	Dental Materials (1)
8		Oral Histology (2)	علم أنسجة الفم (2)	2	1	2	---	Oral Histology and Embryology (1)
9		Medical statistics	الإحصاء الطبي	2	2			
Total				21	16	10	---	

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Third Year – First Semester

No	Course Code	English	Arabic	Total Credit Hour				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1		Pharmacology	علم الأدوية	2	2	---	---	Biochemistry (2.1)
2		Operative Dentistry (2)	طب الأسنان التحفظي (2)	2	1	2	----	Operative Dentistry (1)
3		Fixed Prosthodontics (1)	الاستعاضة السنية الثابتة (1)	3	2	2	---	
4		Endodontics (1)	المعالجة اللبية (1)	3	2	2	---	
5		Oral Surgery (1)	جراحة الفم (1)	3	2	2	---	
6		Oral Pathology (1)	أمراض الفم (1)	2	1	2	----	Oral Histology
7		Removable Prosthodontics (3)	الاستعاضة السنية المتحركة (3)	3	2	2	---	Removable Prosthodontics (2)
8		General internal Medicine	باطنية عامة	2	2	----	----	Human Physiology
Total				20	14	12		

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Third Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1		Removable Prosthodontics (4)	الاستعاضة السنية المتحركة (4)	2	1	2	---	Removable Prosthodontics (3)
2		Oral Pathology (2)	أمراض الفم (2)	2	1	2	----	Oral Pathology (1)
3		Fixed Prosthodontics (2)	الاستعاضة السنية الثابتة (2)	2	1	2	---	Fixed Prosthodontics (1)
4		Oral Surgery (2)	جراحة الفم (2)	2	1	2	---	Oral Surgery (1)
5		Endodontics (2)	المعالجة اللبية (2)	2	1	2	---	Endodontics (1)
6		Forensic medicine	الطب الشرعي	2	2			
7		Operative Dentistry (3)	طب الأسنان التحفظي (3)	2	1	2		Operative Dentistry (2)
8		Oral Radiology	اشعة الفم	3	2	2		
9		Digital dentistry (1)	طب الأسنان الرقمي (1)	3	2	2		
Total				20	12	16		

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Fourth Year – First Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1		Oral Surgery (3)	جراحة الفم (3)	2	1	----	3	Oral Surgery (2)
2		Oral Medicine (1)	طب الفم (1)	3	2	----	3	----
3		Periodontics (1)	أمراض الأنسجة الحول سنية (1)	2	1	----	3	
4		Removable Prosthodontics (5)	الاستعاضة السنية المتحركة (5)	2	1	----	3	Removable Prosthodontics (4)
5		Fixed Prosthodontics (3)	الاستعاضة السنية الثابتة (3)	2	1	----	3	Fixed Prosthodontics (2)
6		Endodontics (3)	المعالجة اللبية (3)	2	1	----	3	Endodontics (2)
7		Pediatric Dentistry (1)	طب أسنان الأطفال (1)	2	1	----	3	
8		Operative Dentistry (4)	طب الأسنان التحفظي (4)	2	1	----	3	Operative Dentistry (3)
9		Orthodontics (1)	تقويم الأسنان (1)	2	1		3	----
10		Digital dentistry (2)	طب الأسنان الرقمي (2)	3	2		3	Digital dentistry (1)
Total				22	12		30	

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Fourth Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1		Oral Surgery (4)	جراحة الفم (4)	2	1	----	3	Oral Surgery (3)
2		Oral Medicine (2)	طب الفم (2)	2	1	----	3	Oral Medicine (1)
3		Periodontics (2)	أمراض الأنسجة الحول سنية (2)	2	1	----	3	Periodontics (1)
4		Orthodontics (2)	تقويم الأسنان (2)	2	1		3	Orthodontics (1)
5		Fixed Prosthodontics (4)	الاستعاضة السنية الثابتة (4)	2	1	----	3	Fixed Prosthodontics (3)
6		Endodontics (4)	المعالجة اللبية (4)	2	1	----	3	Endodontics (3)
7		Pediatric Dentistry (2)	طب أسنان الأطفال (2)	2	1	----	3	Pediatric Dentistry (1)
8		Preventive Dentistry (1)	طب الأسنان الوقائي (1)	2	1	----	3	
9		Dental Implant (1)	زراعة الأسنان (1)	3	2		3	
10		Aesthetics Dentistry (1)	طب الأسنان التجميلي (1)	2	1		3	
Total				21	11		30	

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Fifth Year – First Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1		Oral Medicine (3)	طب الفم (3)	2	1	----	3	Oral Medicine (2)
2		Oral Surgery (5)	جراحة الفم (5)	2	1	----	3	Oral Surgery (4)
3		Orthodontics (3)	تقويم الأسنان (3)	2	1	---	3	Orthodontics (2)
4		Preventive Dentistry (2)	طب الأسنان الوقائي (2)	2	1	----	3	Preventive Dentistry (1)
5		Periodontics (3)	أمراض الأنسجة الحول سنية (3)	2	1	----	3	Periodontics (2)
6		Pediatric dentistry (3)	طب أسنان الأطفال (3)	2	1	----	3	Pediatric Dentistry (2)
7		Comprehensive Clinical Practice (1)	علاج الأسنان الشامل (1)	5	2	----	9	-----
8		Aesthetics Dentistry (2)	طب الأسنان التجميلي (2)	2	1		3	Aesthetics Dentistry (1)
9		Dental Implant (2)	زراعة الأسنان (2)	3	2		3	Dental Implant (1)
Total				22	11		33	

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Fifth Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1		Periodontics (4)	أمراض الأنسجة الحول سنية (4)	2	1	----	3	Periodontics (3)
2		Pediatric Dentistry (4)	طب أسنان الأطفال (4)	2	1	----	3	Pediatric Dentistry (3)
3		Comprehensive Clinical Practice (2)	علاج الأسنان الشامل (2)	5	2	----	9	Comprehensive Clinical Practice (1)
4		Orthodontics (4)	تقويم الأسنان (4)	2	1	----	3	Orthodontics (3)
5		Medical emergency in dentistry	طب طوارئ الاسنان	2	1	---	3	
6		Dental Implant (3)	زراعة الأسنان (3)	3	2		3	Dental Implant (2)
7		Occlusion and Temporomandibular Disorders	الإطباق السني واعتلالات المفصل الفكي الصدغي	1	1	----	----	----
8		Geriatrics Dentistry	طب اسنان الشيخوخة	1	1			
9		Research Methodology & Graduation Research	مناهج البحث العلمي ومشروع بحث التخرج	3	2	----	3	Medical statistics
Total				21	12		27	

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17. Distribution of Total Credit Hours:

Level	Term	University Requirements		Faculty Requirements		Program Requirements		Training		Project		Total Cr. Hrs.		Total Cr. Hrs./ Level
		No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	
First	First	4	8	3	9	2	5					9	22	44
	Second	4	9	4	10	1	3					9	22	
Second	First			5	12	4	10					9	22	43
	Second			5	10	4	11					9	21	
Third	First			2	4	6	16					8	20	40
	Second			1	2	8	18					9	20	
Fourth	First					10	22					10	22	43
	Second					10	21					10	21	
Fifth	First					8	17	1	5			9	22	43
	Second					7	13	1	5	1	3	9	21	
Total:		8	17	20	47	60	136	2	10	1	3	91	213	213
Percentage:		8%		22.1%		63.9%		4.7%		1.3%		100%		

18. Admission Requirements:

- Admissions to the program shall be made as per the admission rules set by the Ministry of Higher Education and Scientific Research as well as 21 Sep. University admission guidelines.
- General Secondary school certificate (Science Section) or any equivalent certificate with grade as specified in the admission rules made by Ministry of Higher Education and Scientific Research.
- Pass the aptitude test and personal interview if any.
- Any necessary requirement for specialization, decided by the Faculty.

19. Attendance and Graduation Requirements:

- Student attendance should not be less than 75%.
- Student will graduate after successfully passing all program requirements.
- Total credit hours for the program is 213 credit hours.
- Minimum score for any student to pass any credit hours course is **65%** marks.

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20. Grading System:

From 90% to 100% of total marks	Excellent
From 80% to less than 90%	Very Good
From 70% to less than 80%	Good
From 65% to less than 70%	Pass
Less than 65%	Poor/Fail

21. Facilities Required for Running the Program:

1. Sufficient Classrooms furnished with all necessary pieces and equipment.
2. Labs as per the course's specifications.
3. Computer Labs.
4. Academic and administrative staff offices.

22. Program Assessment:

Type of the Sample who Assess the program		Instruments used	Sample
1	Final year assessment	Questionnaire	Random
2	External examiner evaluation	Questionnaire	-Graduate Club - By Email
3	Graduated student evaluation	Reports	External University
4	External evaluator	Reports	External University
5	Council for Accreditation and Quality Assurance in Yemen	Reports	Review by team work

23. Program Quality Standards:

- Continuous evaluation
- Workshops

24. Internal and external training to satisfy program standards::

- Internally :- training in well-equipped labs
- Externally :- Training in hospital controlled by logbook

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25. Program Policies:

Based on University Regulations

1.	<p>(Class Attendance) :</p> <p>A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again.</p>
2.	<p>(Tardy) :</p> <p>For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he/she will be considered as absent.</p>
3.	<p>(Exam Attendance/Punctuality) :</p> <p>A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.</p>
4.	<p>(Assignments & Projects) :</p> <p>Assignments and projects are given as per course specification; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.</p>
5.	<p>(Cheating) :</p> <p>For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.</p>
6.	<p>(Plagiarism) :</p> <p>Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.</p>
7.	<p>(Other policies) :</p> <ul style="list-style-type: none"> - Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room. - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments might be given directly to students using soft or hard copy.

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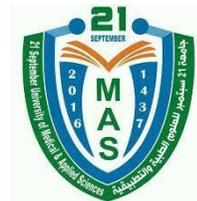
Prof. Abdulwahab Al-kholani

Center of Development & Quality Assurance

Assoc. Prof. Muneer Alwesabi.

Rector

Prof. Mojahed Measar



Annex- 1, Survey on the Strategic Orientations of the Department and Similar Departments, and their Alignment to the Strategic Orientations of the University and Faculty:

Benchmarked Programs:

- 1- Sana'a University. Dentistry College -Yemen
[https:// su.edu.ye/](https://su.edu.ye/)
- 2- University of Science and Technology. Dentistry College Yemen
<https://ust.edu.ye/>
- 3- Alexandria University, Dentistry College -Egypt
<https://dent.alexu.edu.eg/>
- 4- The University of Jordan, Dentistry College -Jordan
<https://dentistry.ju.edu.jo>
- 5- McGill University. Faculty of dental medicine and oral health sciences -Canada
<https://www.mcgill.ca/dentistry/>
- 6- Newcastel University. Faculty of Medical Sciences (School of Dental Sciences)- United Kingdom
<https://www.ncl.ac.uk>

1- Mapping of Department Vision to the University and Faculty Visions:

University Vision	Faculty of Dentistry Vision	Dental Surgery Program Vision
A contemporary University with National Responsibility and a Faith Identity.	A contemporary faculty of dentistry with National Responsibility and a Faith Identity.	No vision for the program. But Mission

2- Mission of the Corresponding Faculty and Suggested Mission: :(Benchmarks)

#	University	Faculty Mission
1.	Sana'a University	تلتزم كلية طب الأسنان - جامعة صنعاء- بتخريج كادر متميز قابل للتطور بمستوى عال منافس، قادر على تلبية احتياجات سوق العمل، وتقديم خدمات مجتمعية في إطار القيم والعادات التي تخدم المجتمع من خلال تطوير البرامج التعليمية والنهوض بالبحث العلمي وأليات التعليم المستمر.
2.	Science and Technology University	The Bachelor in Dental Surgery Program intends to graduate highly qualified dentists capable of applying their knowledge, skills and experience effectively, having the basic research concepts, and providing various dental health care services to the community through a highly qualified academic staff and an educational environment that encourage innovation and creativity.
3.	Alexandria University	تخريج أطباء أسنان مؤهلين و مزودين بالمهارات و المعارف و التوجهات اللازمة لممارسة العناية بصحة الفم والأسنان المستندة على المعايير الأخلاقية و العلمية و البحثية على الصعيدين الفردي و المجتمعي.
4.	The University of Jordan	To graduate qualified dentists equipped with necessary knowledge, skills and competencies by providing a contemporary learning, educational and research environment according to the highest possible standards. To provide training for dental students using dental laboratories and clinical facilities equipped with the latest technologies, instruments, and materials used in dental care using

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#	University	Faculty Mission
		available resources. Furthermore, to provide opportunities for continuing education and promote self-learning skills and community service
5.	McGill University	The mission of the Faculty of Dental Medicine and Oral Health Sciences is to advance transformative education, science-based intervention and lifelong learning grounded in high caliber research and exceptional clinical training. Our programs foster access to integrated care, community service and engagement. We bridge fundamental, applied and translational research to dental practice using creative knowledge transfer. Through strong community partnerships as well as national and international collaboration, our faculty promotes sustainable growth, connectivity and innovation.
6.	Newcastel University	Our mission is to educate students at all levels and disciplines of the medical sciences in accordance with the highest educational standards. We educate future medical doctors, dentists, pharmacists, and health scientists to work in diverse communities
7.	21 September University	Share the Leading of the transformation in delivery of dental care with high quality by setting a standard of excellence in education of medical and dentistry research with dental technology in a way that meets the needs of Yemeni society, its specificity and regional influence.

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3- Mapping of Program Mission to the University and Faculty Missions:

University Mission	Faculty of Dentistry Mission	Dental Surgery Program Mission
Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.	Share the Leading of the transformation in delivery of dental care with high quality by setting a standard of excellence in education of medical and dentistry research with dental technology in a way that meets the needs of Yemeni society, its specificity and regional influence.	Providing the community with distinguished dentists with human values and who play an educational, training, research and health role that qualifies them for professional competence at the highest levels, and who are capable of decision making and continuous self-learning, providing quality dentistry care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.

4- Objectives (Educational) of the Corresponding Faculty and Suggested Objectives:

#	University	Faculty Objectives
1.	Sana'a University	<ol style="list-style-type: none"> 1. الموازنة بين برامج الكلية ومناطق التميز التي تسعى إليها الجامعة 2. الاسهام في سد احتياجات سوق العمل ومواكبة تغيراته 3. تحديث البرامج الاكاديمية واعتمادها وتحقيق معايير الاعتماد الاكاديمي والمؤسسي 4. بناء هيكل تنظيمي مرن للكلية وتحديد صلاحياته ووحداته 5. تعزيز القدرات المالية للكلية وايجاد آليات تسمح بمرونة النظم المالية للكلية 6. دعم منظومة الجودة والتدريب بالكلية 7. بناء جسور التعاون مع المجتمع بجميع مؤسساته وبناء شراكة مع مؤسسات المجتمع المختلفة والجهات الدولية

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#	University	Faculty Objectives
		<p>8. توفير مناخ جيد يرفع كفاءة وفاعلية العملية التعليمية ويسهم في تخرج طبيب أسنان عصري</p> <p>9. تطوير وتشجيع البحث العلمي ودعم الإبداع والتميز والتفاعل الإيجابي</p>
2.	Science and Technology University	<p>1. رفد المجتمع بكوادر صحية ذات كفاءات ومهارات مهنية متميزة .</p> <p>2. تقديم برامج أكاديمية صحية متميزة طبقاً لمعايير الجودة والاعتماد الأكاديمي.</p> <p>3. الاسهام في تقديم وتطوير الخدمات الصحية في المجتمع.</p> <p>4. توفير بيئة تعليمية وبحثية تلبي احتياجات المجتمع.</p> <p>5. تفعيل التواصل مع المؤسسات المحلية والاكاديمية ذات الصلة بالرعاية الصحية</p>
3.	Alexandria University	<p>1. اكتساب المعرفة والفهم والمهارات المختلفة اللازمه لتوفير التوعية و الوقاية في طب الأسنان.</p> <p>2. التواصل الفعال مع المرضى واسرهم لتطوير اسلوب العناية بشكل دقيق.</p> <p>3. تشخيص وعلاج الامراض المنتشرة الخاصه بالفم والاسنان والتي يتعرض لها الفرد والمجتمع بكافه مستوياته والوقايه من هذه الامراض.</p> <p>4. الحفاظ على مستويات الامان ومستويات مكافحه العدوى.</p> <p>5. الحفاظ على المعايير المهنية بشكل مرضى من خلال التعرف على اهميه التعلم مدى الحياه والسعى الى التعليم المهني المستمر.</p> <p>6. امتلاك المهارات الشخصيه فى الاتصال والعرض والتفكير النقدى مع قدره على استخدام التكنولوجيا الجاريه فى مجال طب الاسنان.</p> <p>7. اكتساب المهارات المختلفه المطلوبه لسوق العمل لمهنه طب الاسنان وتوجيهها نحو تحسين حاله الصحيه للمجتمع والخدمات.</p>
4.	The University of Jordan	<p>1. Continuous development of the learning and teaching environment in order to nourish students' abilities and skills.</p> <p>2. To build strong bridges between the School of Dentistry and the local community.</p> <p>3. Enhance oral health awareness among the local community.</p> <p>4. Encourage Faculty members to conduct high quality research by fostering better research environment and facilities</p>

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#	University	Faculty Objectives
5.	McGill University	<ol style="list-style-type: none"> 1. • To enable oral health professionals to attain the highest levels of competence and commitment to patients and to the community. 2. • To foster outstanding research, and to educate and nurture students in order to increase knowledge and improve the well-being of the population. 3. • To serve the population through the delivery of oral health care in hospital facilities and through outreach programs in underprivileged communities. 4. • To maintain a leadership role in oral health education, in scientific research, and in the shaping of public health policy, with an emphasis on reducing health inequalities.
6.	Newcastel University	<ol style="list-style-type: none"> 1- Demonstrate an ability to think critically, a proficiency in clinical reasoning, an insight into research and scientific method, a resourcefulness and creativity, and an ability to cope with uncertainty; 2- possess an integrated core knowledge of biomedical, behavioural, population and clinical knowledge relevant to the understanding and management of problems and conditions encountered in the Foundation Programme F1 year; 3- possess a range of generic (transferable) skills which are those expected of all university graduates; 4- demonstrate competence in those core clinical, interpersonal, and practical/technical skills relevant to the commencement of the Foundation Programme F1 year and in line with the 'New Doctor'. 5- demonstrate appropriate professional behaviours in relation to all aspects of clinical practice;

#	University	Faculty Objectives
		6- demonstrate attitudes consistent with ‘Duties of a Doctor’ as defined by the GMC in Good Medical Practice. broaden their academic, individual and professional perspectives through special study.
7.	21September University	<ol style="list-style-type: none"> 1. Ensuring the application of quality standards and setting standards of excellence in dentistry sciences, dental technology, scientific research and community service. 2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work. 3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of dentists, dental technicians, specialists, consultants, thinkers, businessmen and good citizens with high efficiency. 4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally in dentistry and dental technology. 5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional dentistry practices to benefit from them locally and regionally.

5- Mapping of Department Objectives to the University and Faculty Objectives:

University Objectives	Faculty of Dentistry Objectives	Dental Surgery Program Objectives
<p>1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.</p> <p>2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.</p> <p>3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.</p> <p>4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.</p>	<p>1. Ensuring the application of quality standards and setting standards of excellence in dentistry sciences, dental technology, scientific research and community service.</p> <p>2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.</p> <p>3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of dentists, dental technicians, specialists, consultants, thinkers, businessmen and good citizens with high efficiency.</p> <p>4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and</p>	<p>1. Graduating competent dentists who possess the basic medical, dental knowledge and skills to practice dentistry efficiency and serve the community.</p> <p>2. Improve the practical and clinical skills with advanced scientific methods.</p> <p>3. Develop the students diagnostic and therapeutic skills in solving various oral health problems.</p> <p>4. Develop students critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.</p> <p>5. Develop and motivate the students to use technology and artificial intelligence in dentistry.</p>

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University Objectives	Faculty of Dentistry Objectives	Dental Surgery Program Objectives
<p>5. Enhancing the university's position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.</p>	<p>capable of making a real impact locally and regionally in dentistry and dental technology.</p> <p>5. Enhancing the university's position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional dentistry practices to benefit from them locally and regionally.</p>	<p>6. Prepare graduates to become able Integrate into a team work with sincerity and integrity</p> <p>7. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.</p> <p>8. Enhancing the principles of professional, ethical and national responsibility among students.</p>

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Mapping of Program Values with the University and Faculty Values:

University Values	Faculty of Dentistry Values	Dental Surgery Program Values
<p>1- University Values:</p> <ol style="list-style-type: none"> 1. Leadership and influence 2- Excellence 3- Creativity 4- Teamwork 	<p>Faculty Values:</p> <ol style="list-style-type: none"> 1. 1 Professional 2. Continuous Education. 3. Appreciation of Science and Scientists. 4. Transparency and Accountability. 5. Team Work 	<p>Program Values:</p> <ol style="list-style-type: none"> 1. Professional 2. Continuous Education. 3. Appreciation of Science and Scientists. 4. Transparency and Accountability. 5. Team Work

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Annex- 2, Academic Standards Curriculum Criteria of Accreditation Board



Council for Accreditation & Quality Assurance

National Academic Reference Standards (NARS) For Dentistry Sciences

First Edition

Council for Accreditation & Quality Assurance, Yemen

May 2018

Dean of the Faculty

Prof. Abdulwahab Al-kholani

Center of Development & Quality Assurance

Assoc. Prof. Muneer Alwesabi.



Council for Accreditation & Quality Assurance

National Academic Accreditation Standards For Medical Sciences

Second Edition

Council for Accreditation & Quality Assurance, Yemen

April 2022

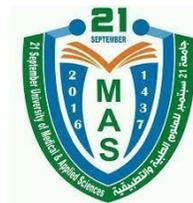
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Prof. Mojahed Measar



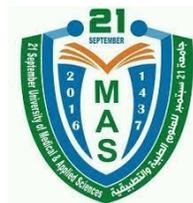
Annex- 3, Unified Regulations for Student Affairs, Ministry of Higher Education and Scientific Research

Attached Separately



Annex- 4, Survey of Similar Accredited Programs at National and International Universities (Benchmarks)

Program No.	The Academic Program	The University	Website	The Faculty	The Department	The Country	Degree Award at Program Completion	Program Accrediting Body	Year of Accreditation	Study Duration
Current Program	Dental Surgery	21 September University	https://21umas.edu.ye	Dentistry	Dental Surgery	Yemen	Bachelor of Dental Surgery	Ministry of Higher Education and Scientific Research in Yemen	2024	Five Years
The 2 nd Program	Dental Surgery	Sana'a University	https://su.edu.ye/	Dentistry	Dental Surgery	Yemen	Bachelor of Dental Surgery	Ministry of Higher Education and Scientific Research in Yemen	1997	Five Years
The 3 rd Program	Dental Surgery	University of Science and Technology	https://ust.edu.ye/	Dentistry	Dental Surgery	Yemen	Bachelor of Dental Surgery	Ministry of Higher Education and Scientific Research in Yemen	1994	Five Years
The 4 th Program	Dental Surgery	Alexandria University	https://dent.alexu.edu.eg/	Dentistry	Dental Surgery	Egypt	Bachelor of Dental Surgery	National Authority for Quality Assurance and Accreditation of Education (NAQAAE)	2015	Five Years
The 5 th Program	Dental Surgery	The University of Jordan	https://dentistry.ju.edu.jo/	Dentistry	Dental Surgery	Jordan	Bachelor of Dental Surgery	Higher Education Accreditation Commission (HEAC) Jordan	2021	Five Years
The 6 th Program	Dental Surgery	McGill University	https://www.mcgill.ca/dentistry/	Dental Medicine	Dental Surgery	Canada	Bachelor of Dental Surgery	Accreditation Service for International Colleges	2000	Four Years + 3 Summer semester
The 7 th Program	Dental Surgery	Newcastel University	https://www.ncl.ac.uk/	Dentistry	Dental Sciences	UK	Bachelor of Dental Surgery	General Medical council	2004	Five Years



Annex- 5, Survey on Mission and Objectives of the Program and Similar Accredited Programs and its Alignment to the University, Faculty, and Department Missions and objectives

1- Survey on Mission and Objectives of the Program and Similar Accredited Program

University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
Faculty	Dentistry	Dentistry	Dentistry	Dentistry	Dental Medicine	Dentistry	Dental
Department	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery	Dental Sciences	Dental Surgery
Program	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery	Dental Surgery
Country	Yemen	Yemen	Egypt	Jordan	Canda	UK	Yemen
Program Mission	To produce a caring, knowledgeable, competent and skilled dentist who is able, on graduation, to accept professional	The Bachelor in Dental Surgery Program intends to graduate highly qualified dentists capable of applying their knowledge, skills and experience effectively, having	تخريج أطباء أسنان مؤهلين و مزودين بالمهارات و المعارف و التوجهات اللازمة لممارسة العناية بصحة الفم والأسنان المستندة على المعايير الأخلاقية والعلمية والبحثية على الصعيدين الفردي والمجتمعي.	To graduate qualified dentists equipped with the knowledge, skills and competencies required, by providing a learning and research environment	The mission of the Faculty of Dental Medicine and Oral Health Sciences is to advance transformative education, science-based intervention and lifelong learning grounded	Our mission is to educate students at all levels and disciplines of the medical sciences in accordance with the highest educational standards. We educate future	Providing the community with distinguished dentists with human values and who play an educational, training, research and health role that qualifies them for professional competence at the

University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
	responsibility of providing effective and safe care of patients, who appreciates the need for continuing professional development, who is able to use advances in relevant knowledge and techniques and who understands the role of the patients in decision making.	the basic research concepts, and providing various dental health care services to the community through a highly qualified academic staff and an educational environment that encourage innovation and creativity.		according to the highest quality standards.	in high caliber research and exceptional clinical training. Our programs foster access to integrated care, community service and engagement. We bridge fundamental, applied and translational research to dental practice using creative knowledge transfer. Through strong community partnerships as well as national and international collaboration, our faculty promotes sustainable growth, connectivity and innovation.	medical doctors, dentists, pharmacists, and health scientists to work in diverse communities	highest levels, and who are capable of decision making and continuous self-learning, providing quality dentistry care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.

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University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
Program Objectives	<ul style="list-style-type: none"> - 1.knowledge of basic medical sciences to be able to understand and manage patients including patients with medical conditions. - 2. knowledge in basic and clinical dental sciences. Hence, providing the society with highly qualified professionals who are capable and committed to oral and dental health - 3. Potential for career improvement through lifelong learning, future 	<p>1- Prepare dentists with a high level of knowledge and practical skills in the various fields of dental sciences.</p> <p>2- Enhance student knowledge and skills that meet the requirements of the local and regional labor market.</p>	<p>1-اكتساب المعرفة والفهم والمهارات المختلفه اللازمه لتوفير التوعيه و الوقاية في طب الأسنان.</p> <p>2-التواصل الفعال مع المرضى واسرهم لتطوير اسلوب العناية بشكل دقيق.</p> <p>3-تشخيص وعلاج الامراض المنتشره الخاصه بالفم والاسنان والتي يتعرض لها الفرد والمجتمع بكافه مستوياته والوقايه من هذه الامراض.</p> <p>4-الحفاظ على مستويات الامان ومستويات مكافح العدوى.</p> <p>5-الحفاظ على المعايير المهنية بشكل مرضى من</p>	<p>- Provide the student with up-to-date and detailed comprehensive knowledge of basic medical sciences to be able to understand and manage medically-compromised patients, especially with the increase in life expectancy and the subsequent increase in the numbers of older patients suffering from chronic medical problems.</p>	<ul style="list-style-type: none"> 1. • To enable oral health professionals to attain the highest levels of competence and commitment to patients and to the community. 2. • To foster outstanding research, and to educate and nurture students in order to increase knowledge and improve the well-being of the population. 	<p>The aim of the BDS curriculum is to produce a caring, knowledgeable, competent and skilful dentist who is able, on graduation, to accept professional responsibility for the effective and safe care of patients, who appreciates the need for continuing professional development, who is able to utilise advances in relevant knowledge and techniques and who</p>	<ul style="list-style-type: none"> 1. Graduating competent dentists who possess the basic medical, dental knowledge and skills to practice dentistry efficiency and serve the community. 2. Improve the practical and clinical skills with advanced scientific methods. 3. Develop the students diagnostic and therapeutic skills in solving various oral health problems.

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University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
	<p>specialization, graduate studies.</p> <p>- 4. Essential knowledge on the local communities enabling them to manage health problems in their communities.</p> <p>- 5. Skills focused on preventive dentistry and directed at development and enhancement of oral and dental health and awareness of the community.</p>	<p>3- Acquire student the basic skills for contribution in scientific researches in the various fields of dental sciences.</p> <p>4- Provide community with various oral and dental health care services and acquire the graduate necessary skills to deal with the patients and</p>	<p>خلال التعرف على اهمية التعلم مدى الحياه والسعى الى التعليم المهني المستمر.</p> <p>6-امتلاك المهارات الشخصية في الاتصال والعرض والتفكير النقدي مع قدره على استخدام التكنولوجيا الجارويه في مجال طب الاسنان.</p> <p>7-اكتساب المهارات المختلفة المطلوبة لسوق العمل لمهنة طب الاسنان وتوجيهها نحو تحسين الحالة الصحية للمجتمع والخدمات.</p>	<p>- Provide the student with knowledge in basic and clinical dental sciences with an emphasis on the evidence-based state-of-the-art practices. Hence, providing the society with highly qualified professionals who are capable and committed to oral and dental health, and who can continue to advance their careers through lifelong learning.</p> <p>- To boost the students' potential for future specialization and</p>	<p>3. • To serve the population through the delivery of oral health care in hospital facilities and through outreach programs in underprivileged communities.</p> <p>4. • To maintain a leadership role in oral health education, in scientific research, and in the shaping of public health policy, with an emphasis on</p>	<p>understands the role of patients in decision making. The content and structure of the programme is intended to meet the requirements of the General Dental Council publication The First Five Years and is guided by the QAA Subject Benchmark Statement for Dentistry.</p>	<p>4. Develop students critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.</p> <p>5. Develop and motivate the students to use technology and artificial intelligence in dentistry.</p> <p>6. Prepare graduates to become able Integrate into a team work with sincerity and integrity</p> <p>7. Prepare the students with abilities and skills that qualify</p>

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University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
		colleagues in dental field at the same time.		graduate studies through the introduction of the basics of scientific research and the presentation of the new advancements and techniques in the different specialties. - Provide the students with the essential knowledge about the local and regional communities to help them understand and be able to manage the health problems in their communities, with an emphasis	reducing health inequalities.		them to join higher studies and training programs that allow them to specialize, improve performance and professional development. 8. Enhancing the principles of professional, ethical and national responsibility among students.

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University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
				<p>on preventive dentistry and the impact of improving oral and dental health on the society and its development.</p> <ul style="list-style-type: none"> - To recruit, retain, support and develop faculty and staff devoted to providing high quality teaching, enforcing ethical conduct, producing highly-ranked research and serving their communities. - To promote scientific research in different fields of dentistry. 			

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University	Sana'a University	University of Sciences and Technology	Alexandria University	The University of Jordan	Mcgill University	Newcastel University	21 Sep. University
				- To ensure constructive interaction through strengthening academic ties among dentists, and with local and global communities.			
Program ILOs	<p><u>Knowledge and Understanding</u></p> <p>1. Discuss the scientific basis of dentistry and the relevant biomedical, and behavioral sciences which form</p>	<p><u>Knowledge and Understanding:</u></p> <p>A1. Show advanced knowledge of the scientific basis of dentistry and relevant biomedical and behavioral sciences and research.</p>	<p><u>a. Knowledge and Understanding</u></p> <p><u>By the end of the program, the graduate will gain knowledge and understanding to be able to:</u></p> <p>A1 Describe the normal structure and function of human body.</p>	<p>1. Utilize knowledge in the basic medical and dental sciences with emphasis on subjects and systems with direct relation to oral health and oral function.</p> <p>2. Communicate effectively and sensibly by spoken and written means, with patients, parents,</p>	<p><u>Clinical and Professional Skills</u></p> <ul style="list-style-type: none"> ○ Developing and maintaining professional behaviors ○ Develop interpersonal and communication skills for an effective 	<p>A Knowledge and Understanding Students will acquire an understanding of the scientific basis of dentistry including the relevant medical sciences, the mechanisms of knowledge acquisition, scientific method and the evaluation</p>	<p><u>B. KNOWLEDGE AND UNDERSTANDING</u></p> <p><i>Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:</i></p> <p>A1. Describe the scientific basis of dentistry and the relevant biomedical</p>

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	<p>the basis for understanding human growth, development and health</p> <p>2. Describe the structure and function of the human body in health and disease related to the practice of dentistry.</p> <p>3. State the laws and ethics governing dental practice.</p> <p>4. Recognize the clinical, laboratory and special investigatory</p>	<p>A2. Recognize the structure and function of human body in health and disease related to the practice of dentistry. B. Cognitive/ Intellectual Skills: B1. Analyze the clinical problems of oral cavity and para-oral structures thus reaching a correct diagnosis, creating appropriate treatment plan and prescribing proper medications.</p>	<p>A2 Describe molecular, biochemical and cellular mechanisms needed in maintaining homeostasis.</p> <p>A3 Identify the developmental changes in humans and the effect of growth and aging on individuals and their family.</p> <p>A4. Describe basics of normal and abnormal human behaviors.</p> <p>A5 Identify altered structure and function of humans in various diseases</p>	<p>guardians, peers, staff and faculty.</p> <p>3. Obtain and record an accurate and comprehensive medical and dental history from patients, and produce an appropriate systematic intra- and extra-oral clinical examination.</p> <p>4. Interpret the significance of history and examination and employ relevant special investigations and diagnostic procedures to develop appropriate differential diagnoses and treatment plans.</p>	<p>collaboration with patients, their families</p> <ul style="list-style-type: none"> ○ Develop skills for evidence based learning and practice ○ Ability to use the latest scientific resources and make use of new information in their work ○ Practical ability to diagnosis and management of common medical problems and/ 	<p>of evidence. They will also be aware of a wide range of problems that are presented by patients and the variety of techniques that have been developed for their recognition, investigation, prevention and treatment. The Dental graduate must know and understand:</p> <p>A1 The scientific basis of dentistry, including the relevant biomedical sciences, the mechanisms of knowledge acquisition, scientific method</p>	<p>and behavioral sciences which form the basis for understanding human growth, development and health.</p> <p>A2. Explain the structure and function of the human body in health and disease related to the practice of dentistry.</p> <p>A3. Identify the rules and ethics governing dental practices.</p> <p>A4. Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.</p> <p>A5. Show an understanding of the psychological, cultural and social</p>

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	<p>procedures practiced in dentistry.</p> <p>5. Identify psychological, cultural, and social factors related to oral disease prevention and management.</p> <p>6. Recognize the principles of evidence-based dentistry and its relation to scientific research and clinical practice.</p> <p>B. Cognitive/ Intellectual Skills:</p>	<p>B2. Diagnose different clinical dental conditions through interpretation of collected information from various resources in applied clinical dentistry.</p> <p>B3. Select suitable dental materials and manipulate them properly to be used in a specific clinical situation.</p> <p>C. Practical and Professional Skills:</p> <p>C1. Treat various dental patients by applying the</p>	<p>and conditions in relation to gender and age.</p> <p>A6 Describe the common diseases and life-threatening conditions as regards etiology, pathogenesis, clinical features, differential diagnosis and complications throughout the different age groups.</p> <p>A7 Define the principles of management for common diseases and life-threatening</p>	<p>5. Demonstrate proficiency in conducting different clinical procedures of specialized areas of dentistry at a level that is appropriate for a general dentist.</p> <p>6. Promote oral health and disease prevention measures to individual patients and employ them in the society.</p> <p>7. Practice and apply a wide range of skills, including investigative, analytical, problem-solving, critical thinking, planning, presentation and team work skills.</p>	<p>or emergency diseases</p>	<p>and evaluation of evidence</p> <p>A2 Behavioural sciences and communication</p> <p>A3 Disease processes such as infection, inflammation, disorders of the immune system, degeneration, neoplasia, metabolic disturbances and genetic disorders</p> <p>BDS Degree Programme Specification</p> <p>A4 The principles of health promotion and disease prevention</p> <p>A5 The organisation and</p>	<p>factors that have implications on oral disease management and prevention.</p> <p>A6. Explain of the digital technology in dentistry & Explain the principles of evidence-based dentistry and its relation to scientific research</p> <p><u>C. COGNITIVE/INTELLECTUAL SKILLS</u></p> <p><i>Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:</i></p> <p>B1. Incorporate theoretical basic</p>

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	<p>On successful completion of the program, the graduates should be able to:</p> <p>Incorporate theoretical basic science of human body with clinical findings for appropriate understanding of oral disease and its management .</p> <p>Apply critical thinking and evidence-based problem solving when providing patient care</p>	<p>gained clinical skills working in a safe environment using infection and radiation protection measures.</p> <p>C2. Manage the patient effectively and safely with continuous analysis and evaluation of treatment outcomes to determine any needed modification of intervention.</p> <p>C3. Apply preventive</p>	<p>conditions including pharmacological basis of drugs, non-invasive and invasive interventions, basic pre- and post-operative care, pain relief and palliative care.</p> <p>A8 Describe the theoretical basis of professional, practical skills and evidence based medicine (EBM).</p> <p>A9 Describe the role of genetics in health and disease and the basic principles of gene</p>	<p>8. Adhere to the legal, ethical and professional responsibilities while practicing dentistry.</p> <p>9. Apply safety measures for self, dental team, and patient while providing treatment, taking into consideration the medico-legal issues.</p> <p>10. Recognize, evaluate and manage medical and dental emergencies appropriately.</p> <p>11. Utilize contemporary information and technology tools available for dentist for continuing self-education,</p>		<p>provision of health care in the community and in hospital</p> <p>A6 The broader issues of dental practice, including ethics, medico-legal considerations, management, and the maintenance of a safe working environment.</p> <p>B Subject Specific/Practical Skill Objectives The dental graduate must be able to:</p> <p>B1 Obtain and record a comprehensive history, perform an appropriate</p>	<p>biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.</p> <p>B2. Evaluation of critical thinking and evidence-based problem solving when providing patient's care.</p> <p>B3. Prioritize patient's treatment needs and formulate an appropriate treatment plan.</p> <p>B4. Construct preventive strategies at different levels according to the targeted individual</p>

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	<p>Independently formulate appropriate treatment plans based on best interest and preference of the patient and distinguish patients who require referral for specialist care.</p> <p>Construct preventive strategies according to the targeted individual and community needs and capabilities.</p> <p>Select suitable dental materials,</p>	<p>measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly.</p> <p>C4. Use new tools, devices and materials to remain updated with technological advances introduced to the fields of clinical dentistry.</p> <p>C5. Deal with different medical</p>	<p>therapy and genetic counseling</p> <p>A10 Identify the determinants of health, principles of health promotion, disease prevention, early detection and control of common community health problems including disease surveillance and screening.</p> <p>A11 Define the principles of management and appropriate quality concepts and processes required for healthcare facilities.</p> <p>A12 Describe the epidemiologic</p>	<p>medical records and communication.</p> <p>12. Apply and evaluate research and new information to dental practice.</p>		<p>physical examination, interpret the findings and organise appropriate further investigations</p> <p>B2 Undertake a range of clinical procedures which are within a dentist's area of competence, including techniques for preventing and treating oral and dental diseases and disorders</p> <p>B3 Communicate effectively with patients, their families and associates, and with other health professionals</p>	<p>and community needs.</p> <p>B5. Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.</p> <p>B6. Analyze of Artificial intelligence (AI) and digital technology in dentistry to solve the problems of oral and dental surgery and recreate the reasonable solutions.</p> <p>C. <u>PRACTICAL AND PROFESSIONAL SKILLS:</u> <i>Upon successful completion of an undergraduate Dentistry education</i></p>

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	<p>investigations and medications for specific clinical situations. Assess the risk of medical emergencies within the dental practice.</p> <p>C. Professional and practical skills: On successful completion of the program, the graduates should be able to: Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out required investigations</p>	<p>emergencies and be competent in their management within the dental practice setup or otherwise refer to specialist. D. General and Transferable Skills: D1. Use information technology as an aid of diagnosis and treatment applying professional ethical considerations. D2. Commit to self-learning and development to</p>	<p>principles and the effect of social and demographic patterns on disease and vulnerability. A13 Describe the Egyptian health systems and different population-based approaches of health care including disease burden, quality of life and well-being. A14 Recognize basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.</p>			<p>involved in their care</p> <p>B4 Share with patients provisional assessment of their problems and formulate plans for their further investigation and management</p> <p>B5 Apply evidence-based treatment</p> <p>C Cognitive Skills Students will acquire and be able to demonstrate an appreciation of attitudes favourable to the optimal practice of dentistry. This will include an attitude to learning that is</p>	<p><i>program, the graduates will be able to:</i></p> <p>C1. Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment. C2. Detect pathological conditions related to the dental practice. C3. Use infection control protocol and radiation protection regulation according to international standards. C4. Apply comprehensive</p>

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	<p>required to reach a proper diagnosis and treatment plan. Apply infection control and radiation protection measured according to international standards. Provide preventive and therapeutic dental services for all age groups in the community. Prescribe medications for specific clinical situations and refer patients for specialist care whenever required. Manage medical emergencies within the dental practice setup.</p>	<p>remain updated with advances in dental practice. D3. Demonstrate leadership and teamwork skills with colleagues and other oral health team for effective delivery of oral health care through setting treatment priorities and time management. D4. Communicate effectively with patients and their relatives and health care members while keeping</p>	<p>A15 Recognize basics of health and patient's safety and safety procedures during practical and clinical years. A16 Define principles of clinical audit. <u>B. Practical and Clinical Skills</u> By the end of the program, the graduate will be able to: B.1 Demonstrate basic sciences' practical skills relevant to the future practice and acquire practical,</p>			<p>based on intellectual curiosity and the exploration of knowledge, rather than on its passive acquisition, together with a willingness to aid its advancement for the benefit of patients. The programme provides opportunities for students to develop and demonstrate:</p> <p>C1 A desire for intellectual rigour, the development of a capacity for self-audit and an appreciation of the need to participate in peer-review</p>	<p>clinical practices & Apply preventive measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly. C5. Plan when, how and where to refer a patient to a specialist based on clinical assessment. C6. Ability to assess the risk of medical emergencies and be competent in their management within the dental practice setup. C7. Practicing Artificial intelligence (AI) and digital</p>

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	<p>D. General and transferable skills On successful completion of the program, the graduates should be able to: Efficiently use advanced technologies for self-development to remain updated with advancements in the dental practice. Demonstrate leadership and teamwork skills with colleagues and other oral health care workers for effective delivery of oral health care. Manage time, set treatment priorities and work to prescribed time limit Display appropriate attitudes at the</p>	<p>appropriate records in line with patient's confidentiality and medico-legal requirements.</p>	<p>clinical skills and competencies. B.2 Take and record a structured patient-centered history. B.3 Perform full physical examination appropriate to age and gender in acute and chronic clinical conditions. B.4 Assess the mental state of the patient. B.5 Construct appropriate management strategies both diagnostic and therapeutic for</p>			<p>C2 An awareness of personal limitations, a willingness to seek help as necessary, and an ability to work effectively as a member of a team C3 Respect for patients and colleagues that encompasses without prejudice, diversity of background and opportunity, language and culture C4 An understanding of patients' rights, particularly with regard to confidentiality and informed consent,</p>	<p>technology in dentistry. D. GENERAL/TRANSFERABLE SKILLS <i>Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:</i> D1. Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice. D2. Communicate with professionals, patients, their families and the community through</p>

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	<p>personal and professional levels to maintain an excellent image of the profession in the society. Communicate with patients of all age groups in a caring, respectful, professional and informative way.</p>		<p>patients with common acute and chronic diseases including medical, psychiatric and surgical conditions. B.6 Compose an initial plan of management for stabilization of injured and critically-ill patients. B.7 Provide first aid measures for injured and critically-ill patients. B.8 Work out drug dosage based on patient's criteria</p>			<p>and of patients' obligations C5 An awareness of moral and ethical responsibilities involved in the provision of care to individual patients and to populations C6 Integrity, honesty and trustworthiness C7 An awareness of audit and clinical governance C8 An awareness that dentists should strive to provide the highest possible quality of patient care at all times</p>	<p>verbal, written and other non-verbal means ethically. D3. Work individually and in team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention. D4. Use advanced information and communication technologies to enrich and diversify professional experience. D5. Exhibit leadership and Management skills to set treatment priorities and work to</p>

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			<p>and health condition.</p> <p>B.9 Write safe prescriptions of different types of drugs.</p> <p>B.10 Conduct community diagnosis for priority setting of community health problems</p> <p>B.11 Perform venipuncture and collect blood samples.</p> <p>B.12 Insert a cannula into peripheral veins.</p> <p>B.13 Practice enteral, parenteral, inhalational and</p>			<p>C9 An awareness of the importance of his or her own health and its impact on the ability to practise as a dentist</p> <p>C10 An awareness of the need to limit interventions to the minimum necessary to achieve the desired outcomes BDS Degree Programme Specification</p> <p>C11 An awareness of the need for continuing professional development allied to the process of their continuing professional development, in order to ensure that</p>	<p>prescribed time limits.</p> <p>D6. Maintain full and accurate clinical records (manual and electronic).</p> <p>D7. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice.</p>

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			<p>topical methods for drug administration</p> <p>B.14 Perform suturing of superficial wounds.</p> <p>B.15 Demonstrate competency in cardiopulmonary resuscitation and basic life-support.</p> <p>B.16 Perform and interpret ECG.</p> <p>B.17 Perform and interpret basic respiratory function tests.</p> <p>B.18 Use a nebulizer for administration of inhalation therapy.</p>			<p>high levels of clinical competence and knowledge are maintained</p> <p>D Key Skills</p> <p>D1 Exercise initiative and personal responsibility</p> <p>D2 Communicate effectively at all levels in both the scientific and professional contexts using verbal, non-verbal and written means</p> <p>D3 Work effectively as a member of a team</p> <p>D4 Use information technology as a</p>	

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			<p>B.19 Administer basic oxygen therapy.</p> <p>B.20 Insert a nasogastric tube.</p> <p>B.21 Perform bladder catheterization.</p> <p>B.22 Assist in procedure of normal labor.</p> <p>B.23 Perform and interpret basic bedside laboratory tests.</p> <p>B.24 Administer compulsory childhood vaccines</p> <p>B.25 Adopt suitable measures for safety and infection control.</p>			<p>means of communication, for data collection and analysis, and for self-directed learning</p> <p>D5 Analyse and resolve problems, and deal with uncertainty</p> <p>D6 Manage time, set priorities and work to prescribed time limits</p> <p>D7 Make decisions based on sound ethical, moral and scientific principles</p> <p>D8 Manage their learning in the context of establishing a philosophy of continuing</p>	

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			<p><u>C. Professional Attitude and Behavioral Skills</u> <u>By the end of the program, the graduates will acquire the skills required to:</u></p> <p>C.1 Adopt an empathic and holistic approach to patients and their problems, taking into consideration beliefs values, goals and concerns.</p> <p>C.2 Respect the patient's right to know and share in decision making as well as dignity, privacy,</p>			<p>professional development</p> <p>D9 Acquire, analyse, process and communicate information in a scientific manner to solve problems and to guide clinical decision-making</p> <p>D10 Evaluate the evidence published in refereed scientific journals and other publications for sound experimental design and statistical analysis</p> <p>D11 Evaluate the validity of claims related to products or techniques.</p>	

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			<p>information confidentiality and autonomy.</p> <p>C.3 Understand and respect the different cultural beliefs and values regardless of their disabilities in the community they serve.</p> <p>C.4 Recognize the important role played by other health care professions in patients' management, respecting their contributions in patient's management</p>				

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			<p>regardless of degree or occupation.</p> <p>C.5 Apply the national code of ethics issued by the Egyptian Medical Syndicate.</p> <p>C.6. Respect and follow the institutional code of conduct.</p> <p>C.7 Counsel patients suffering from different conditions as well as their families.</p> <p>C.8 Recognize one's own limitations of knowledge and skills referring</p>				

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			<p>patients to appropriate health facility at the appropriate stage.</p> <p>C.9 Ensure confidentiality and privacy of patients information</p> <p>C.10 Treat all patients equally, and avoid stigmatizing any category regardless of beliefs, culture, and behaviors.</p> <p>C.11 Work cooperatively demonstrating respect with other health care professions for</p>				

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			<p>effective patient management.</p> <p>C.12 Be willing to share in all types of inter- professional activities including collaborative and shared learning.</p> <p>C.13 Ensure the cost effectiveness of health care management.</p> <p>C.14 Notify about or report any physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.</p>				

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			<p>D. Communication Skills: <u>By the end of the program, the graduate will be able to:</u></p> <p>D.1 Communicate clearly, sensitively and effectively with patients and their relatives and colleagues from a variety of health and social care professions.</p> <p>D.2 Communicate effectively with individuals regardless of their social, cultural, ethnic</p>				

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			<p>backgrounds, or their disabilities.</p> <p>D.3 Cope with situations where communication is difficult including breaking bad news.</p> <p>D.4 Show compassion to patients and their relatives in situations of stress and grief.</p> <p>D.5 Honor and respect patients and their relatives, superiors, colleagues and any other member of the health profession.</p>				

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			<p>Dd.6 Use different communication approaches to bring about behavioral change.</p> <p><u>E. Intellectual Skills</u> By the end of the program, the graduate will acquire the skills required to:</p> <p>E.1 Integrate basic anatomical, biochemical and physiological facts with clinical data.</p> <p>E.2 Integrate the results obtained from history, clinical examination and investigational data into meaningful</p>				

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			diagnostic formulation. E.3 Combine clinical and investigational data with evidence based knowledge and skill of deductive reasoning for clinical problem solving. E.4 Prioritize the medical problems and their differential diagnoses E.5 Design a management plan for common diseases and emergencies.				

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			<p>E.6 Determine the different strategies for risk management of disease and injury.</p> <p>E.7 Design scientific research through the formulation of research questions pertinent to medicine and the collection, analysis and interpretation of medical data.</p> <p>E.8 Recognize and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to</p>				

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			<p>uncertain situations through proper counseling, consultation and referral.</p> <p><u>F. General and Transferable Skills</u></p> <p><u>By the end of the program, the graduate will acquire the skills required to:</u></p> <p>F1 Adopt the principles of lifelong learning needs of the medical profession (continuous professional development; CPD).</p>				

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			<p>F2 Use computers efficiently in reaching biomedical information to remain current with advances in knowledge and practice.</p> <p>F.3 Present information clearly in written, electronic and verbal forms</p> <p>F.4 Communicate ideas and arguments effectively</p> <p>F.5 Work effectively within a multidisciplinary team</p>				

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			<p>F6 Manage time and resources effectively and set priorities</p> <p>F.7 Apply simple statistical methods</p> <p>F8.Apply English language as needed for appropriate learning and communication in relation to medicine</p> <p>F10 Manage time and resources effectively and set priorities.</p> <p>F.11 Work effectively within healthcare team and as an</p>				

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			<p>effective team leader.</p> <p>F12 Solve problems related to patients, work management and among colleagues.</p> <p>F13 Cope with a changing work environment.</p> <p>F14 Apply safety and infection control measures during practice.</p> <p>F15 Evaluate their work and that of others using constructive feedback.</p>				

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Annex- 6, Department Name:

No.	Department Name
1	Restorative Dentistry
2	Pediatric Dentistry, Orthodontics and Preventive Dentistry

No.	Department Name
3	Oral and Maxillofacial Surgery, Oral Medicine and Periodontology
4	Fixed and Removable Prosthodontics

Annex-7, Alignment of Program Intended Learning Outcomes (PILOS) to Program Objectives (POs)

Program PILOs	Program Objectives							
	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	FObj8
A1	√	√			√	√		√
A2	√	√	√			√		
A3	√	√	√	√		√		
A4							√	
A5								√
A6								
B1	√	√		√				
B2	√	√	√	√				
B3		√	√			√		
B4		√	√			√		
B5		√	√			√		
B6		√	√			√		
C1		√	√					√
C2	√	√	√					√
C3			√	√				√
C4					√			
C5						√		
C6							√	
C7						√		
D1					√		√	√
D2					√		√	√
D3					√		√	√
D4						√		
D5						√		
D6					√		√	√
D7					√		√	√

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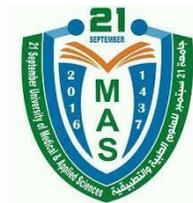
Annex- 8, Mapping of Program Objectives to the Faculty Mission

Program Objectives	Faculty Mission
PObj1	✓
PObj2	✓
PObj3	✓
PObj4	✓
PObj5	✓
PObj6	✓
PObj7	✓
PObj8	✓

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Annex- 9, Survey of PILOs for Similar Accredited Programs at National and International Universities

Program PILOs	Similar Accredited Programs					
	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
A1	√	√	√	√	√	√
A2	√	√	√	√	√	√
A3	√	√	√	√	√	√
A4	√		√	√	√	√
A5	√	√	√	√	√	√
A6						
B1	√	√	√	√	√	√
B2	√	√	√	√	√	√
B3	√	√	√		√	
B4	√	√	√	√	√	√
B5	√	√	√	√	√	√
B6	√	√	√	√	√	√
C1	√	√	√	√	√	√
C2	√	√	√	√	√	√
C3	√	√	√	√	√	√
C4	√	√	√	√	√	√
C5	√	√	√	√	√	√
C6	√	√	√	√	√	√

Program PILOs	Similar Accredited Programs					
	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
C7						
D1	√	√		√		√
D2	√	√	√	√	√	√
D3	√	√	√		√	
D4	√	√	√	√	√	√
D5	√	√	√	√	√	√
D6	√	√	√	√	√	√
D7	√	√	√	√	√	√

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Annex- 10, Alignment of Program PILOs with Council of Accreditation and NARS Standards

Accreditation Body: National Academic Reference Standards (NARS), Yemen, 2018.

Program PILOs	NARS (Yemen), ILOs for Undergraduate Dentistry Programs																											
	Knowledge and Understanding						Intellectual Skills					Professional and Practical Skills							Transferable Skills									
	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	D6	D7	D8		
A1																												
A2																												
A3																												
A4																												
A5																												
A6																												
B1																												
B2																												
B3																												
B4																												
B5																												
B6																												
C1																												
C2																												
C3																												
C4																												
C5																												
C6																												
C7																												

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Program PIOs	NARS (Yemen), ILOs for Undergraduate Dentistry Programs																											
	Knowledge and Understanding						Intellectual Skills					Professional and Practical Skills							Transferable Skills									
	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	D6	D7	D8		
D1																												
D2																												
D3																												
D4																												
D5																												
D6																												
D7																												

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Prof. Mojahed Measar

National Academic Reference Standards For Dentistry Programs, Yemen,2018.

I. GRADUATE ATTRIBUTES

Upon successful completion of an undergraduate engineering program, the graduates will be able to:

1. Independently deliver oral health care services within the scope of general dentistry including patients with special needs.
2. Apply infection control measures and radiation protection.
3. Communicate effectively with patients, colleagues and other members of medical and/oral dental team.
4. Apply critical thinking and evidence-based problem solving when providing patients' care.
5. Respond to community's cultured and social characteristics and understand their implications on oral disease management and prevention.
6. Work in a team with dental staff (receptionists, dental assistants, dental hygienists, dental laboratory technicians and treatment coordinators) to deal with dental cases.
7. Conduct dental practice with high regard to ethics and abide to medico-legal standards.
8. Demonstrate leadership qualities and capacity to function effectively within a team.
9. Identify their own professional limits and conduct clinical referrals when appropriate.
10. Strive for continuous education, self-development, lifelong learning and research to remain updated with advancements in dental practices and dental technology.

II. LEARNING OUTCOMES

A.KNOWLEDGE AND UNDERSTANDING

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

A1. Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.

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-
- A2.** Explain the structure and function of the human body in health and disease related to the practice of dentistry.
- A3.** Identify the rules and ethics governing dental practices.
- A4.** Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.
- A5.** Show an understanding of the psychological, cultural and social factors that have implications on oral disease management and prevention.
- A6.** Explain the principles of evidence-based dentistry and its relation to scientific research

C. COGNITIVE/INTELLECTUAL SKILLS

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

- B1.** Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
- B2.** Apply critical thinking and evidence-based problem solving when providing patient's care.
- B3.** Prioritize patient's treatment needs and formulate an appropriate treatment plan.
- B4.** Construct preventive strategies at different levels according to the targeted individual and community needs.
- B5.** Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.

C. PRACTICAL AND PROFESSIONAL SKILLS:

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

- C1.** Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment.
- C2.** Detect pathological conditions related to the dental practice.
- C3.** Apply infection control and radiation protection according to international standards.
- C4.** Apply preventive measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly.
- C5.** Plan when, how and where to refer a patient to a specialist based on clinical assessment.

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-
- C6. Assess the risk of medical emergencies and be competent in their management within the dental practice setup.
C7. Apply comprehensive clinical practices.

D. GENERAL / TRANSFERABLE SKILLS

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

- D1. Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
D2. Use advanced information and communication technologies to enrich and diversify professional experience.
D3. Demonstrate leadership and teamwork skills with colleagues and other oral health team for effective delivery of oral health care.
D4. Manage time, set treatment priorities and work to prescribed time limits.
D5. Maintain full and accurate clinical records (manual and electronic).
D6. Display appropriate attitudes both on personal and professional levels to keep an excellent regard of the profession in the society.
D7. Identify patients' expectations, desires and attitudes when considering treatment planning.
D8. Analyze and resolve problems and deal with uncertainty.

Annex- 11, Survey of Credit Hours of Similar Programs

Benchmarking		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
University Requirements	Credit Hours	17	17	17	4	15	6	
	Percentage	8%						
University Electives	Credit Hours	----			8			
	Percentage	----						
Faculty Requirements	Credit Hours	50	47	18	54	18	64	48
	Percentage	23.5%						
Faculty Electives	Credit Hours	----		9		9		
	Percentage	----						
Department Requirements	Credit Hours	----						
	Percentage	----						
Major Requirements	Credit Hours	146	121	154	107	156	151	192
	Percentage	68.5%						
Major Electives	Credit Hours	----			20			
	Percentage	----						
Practical Courses	Credit Hours	----						
	Percentage	----						
Training Courses	Credit Hours	----						
	Percentage	----						
Project Courses	Credit Hours	----						
	Percentage	----						
Total Credit Hours	Credit Hours	213	185	198	193	198	221	240 (600 unit)

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Annex- 12, Survey of Number of Courses and Credit Hours of Similar Programs

University		21 SEPTEMBER. University		Sana'a University		University of sciences and technology		Alexandria University		The University of Jordan		Mcgill University		Newcastle University		Average	
Total Courses and Cr. Hrs.		Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses
University Requirements	Compulsory	17	8	17	8	17	8	4	2	15	5	6	3			15	8
	Electives	--	--					8	4								
Faculty Requirements	Compulsory	50	21	47	19	21	7	54	23	18	6	64	22	48	12	53	17
	Electives	--	--			6	3			9	3						
Department Requirements	Compulsory	146	62	121	52	154	74	107	44	156	111	151	65	192	48	150	67
	Electives	--						20	10							--	----
Total		Cr. Hrs.	Courses	Cr. Hrs.	courses	Cr. Hrs.	courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	206 86	
		213	91	185	79	198	92	193	83	198	125	221	90	240	60		

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Annex- 13, Themes of Courses of Study and their Weightage

#	Themes	No. of Courses	Credit Hours	Percentage of Cr. Hrs.
1	University Requirements	8	17	8%
2	Faculty Requirements	21	50	23.5%
3	Program Compulsory Courses	62	146	68.5%
4	Program Elective Courses	0	0	0
Program Total		91	213	100%

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Annex14 -, Coding System

The course code consists of three character + three digits

Abbreviation of character code :

A21U
D21F
DS21P

The three digits:

- First digit for Level
- Second digit for Semester
- Third digit for Course No.

Example:

University Requirement	Level	Semester	Course No.
A21U	1	1	1

Islamic Culture (A21U111)

Faculty Requirement	Level	Semester	Course No.
D21F	1	2	3

Medical Terminology (D21F113)

Major Requirement	Level	Semester	Course No.
DS21P	4	2	1

Dental Anatomy (1) (DS21P116)

Annex15 -, Survey of Course Names per Academic Semesters of Similar Programs

University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University	
No of Courses	91	79	92	83	125	90	60	
Total Cr. Hrs.	213	185	198	193	198	221	240	
Total Years	5 Years	5 Years	5 Years	5 Years	5 Years	4 Years + 3 Summer semester	5 Years	
Level 1								
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	
1	1	English Language (1)	English Language (1)	Dental Anatomy & Morphology (1)	General Physiology (Basic)	General Chemistry1	Dentistry Apprenticeship 1	Orientation and Study Skills
	2	Arabic Language (1)	Arabic Language (1)	General Chemistry	Arabic language لغة عربية لغير الناطقين بها	General Biology 1	Oral Health Research 1	Anatomy of the Head and Neck
	3	Islamic Culture	Islamic Culture	Biology	حقوق الإنسان ومكافحة الفساد	Physics for medical and dental students	Community Oral Health Services 1	Cell Biology
	4	National Education	National Education	Islamic Culture	Organic and Inorganic Chemistry	Computer skills for medical schools	Molecules to Global Health (A)	Interpersonal Skills and Shadowing

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University	
	5	Cell Biology and Genetics	General Biology	National Culture (1)	General Histology	Principles of Statistics	Respiration (B)	Introduction to Clinical Practice
	6	Human Anatomy	Human Anatomy	Arabic Language (1)	General Anatomy		Circulation (C)	Neurobiology
	7	Introduction to Dentistry	Introduction to Dentistry	English Language (1)	Elective (university)		Clinical Method 1	Dental Physiology
	8	Dental Anatomy (1)	Dental Anatomy (1)		Introduction to Dental Anatomy & Morphology of Teeth		Interprofessional Education	Metabolism & Homeostasis
	9	Medical Terminology			خدمة المجتمع وتنمية البيئة			
	10				Elective			
2	1	English Language (2)	English Language (2)	Dental Anatomy & Morphology (2)	General Physiology (Advanced)	Organic Chemistry for non-chemistry majors	Dentistry Apprenticeship 1	
	2	Arabic Language (2)	Arabic Language (2)	Organic Chemistry	Biochemistry & Molecular Biology	Cytology and molecular Biology	Community Oral Health Services 1	
	3	Computer Skills	Computer Science	Biophysics	Animal Physiology	Anatomy & Embryology	Oral Health Research 1	

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
4	4	Arab-Israel Conflict	Arabic- Israeli Conflict	National Culture (2)	Physics and Statistics	Introduction to Physiology	Digestion & Metabolism (E)	
	5	General Histology	General Histology	Arabic Language (2)	Dental Anatomy & Occlusion of Teeth	General Histology	Renal (D)	
	6	General Chemistry	General Chemistry	English Language (2)	Dental Biomaterials (Basic)	University Elective	Clinical Method 1	
	7	Head and Neck Anatomy	Head and Neck Anatomy	Computer Skills	Elective (university)	University Elective	Interprofessional Education	
	8	Dental Anatomy (2)	Dental Anatomy (2)		Elective	University Elective		
	9					University Elective	Dentistry Apprenticeship 1	
	10					University Elective	Defense (F)	
						Infection (G)		
						Movement (H)		
						Clinical Method 1		
		Level 2						
Semester	No							
1	1	Biochemistry	Biochemistry	Oral Histology (1)	General Pathology (Basic)	Anatomy & Embryology of the Head and Neck	Social Justice Seminar 1	Craniofacial and Tooth Biology
	2	Human Physiology (1)	Human Physiology	Dental Materials (1)	Pharmacology	Histology of body	Intro to	Behavioural and

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
		(1)			systems	OralMed&OralDiag	Social Science for Dentists
	3	Microbiology	Embryology	Embryology, Development & Structure of Dental Tissues	Physiology 1	Community Oral Health Services 2	Basic Pharmacology
	4	General Pathology	General Histology	Dental Biomaterials (Applied)	Biochemistry 1	Reproduction & Sexuality (I)	Dental Materials Science
	5	Medical physics	General Anatomy	Elective (university)	<u>Dental Anatomy (Theory)</u>	Oral Health Research 2	Microbiology for Dentistry
	6	Immunology	Human Physiology	Elective	<u>Dental Anatomy (Practical)</u>	Human Behaviour (J)	Immunology and Healthcare
	7	Dental Materials (1)	Dental Materials (1)	التفكير الناقد			Nutrition and Diet
	8	Oral Histology and Embryology (1)	Oral Histology and Embryology (1)	Ethics in Dentistry			Key Clinical Skills
	9						
	10						
2	1	Human Physiology (2)	Human Physiology (2)	Oral Histology (2)	General Pathology (Advanced)	Neuroanatomy for dental students	Social Justice Seminar 1
	2	General internal Medicine	General Medicine	Dental Materials (2)	General Microbiology & Immunology	Physiology 2	Introduction to Inf. Prev. & Control

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
3	Law and Ethics in Dentistry	Medical Ethics	Removable Prosthodontics (1)	Pre-clinical Prosthodontics (Complete Denture)	Biochemistry 2	Tooth Movement (Ortho)	
4	General Surgery	General Surgery	Operative Dentistry (1)	Biology of Paradental	<u>Oral Histology (Theory)</u>	Foundations of Dentistry	
5	Dental Materials (2)	Dental Materials (2)	Head & Neck Anatomy	Tissues & Physiologic Tooth Movements	<u>Oral Histology (Practical)</u>	Support Tissue (Perio)	
6	Oral Histology and Embryology (2)	Oral Histology and Embryology (2)	Biochemistry	Elective (university)	<u>Dental Materials 1 (Theory)</u>	Intro to Restorative Dent.	
7	Principle Health Management and Communication Skills		General Pathology	Elective	Principles of First Aid	Tooth Loss (Edentulism)	
8	Oral Pathology	Oral Pathology	Psychology in Dentistry	الابتكار وزيادة الأعمال	University Elective	Radiology	
9	Medical Psychology		Skills of Holy Quran Recitation & Tajweed		University Elective	Transition to Clinic	
10	Medical statistics				University Elective	Oral Health Research 2	
		Operative Dentistry (1)			University Elective	<i>Advanced Std. Student Only 3</i>	
		Removable Prosthodontics (1)					
						Introduction to Inf. Prev. & Control	

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
							Tooth Movement (Ortho)	
							Support Tissue (Perio)	
							Intro to Restorative Dent.	
							Tooth Loss (Edentulism)	
							Radiology	
							Transition to Clinic	
Level 3								
Semester	No							
1	1	Pharmacology	Pharmacology	Oral Pathology (1)	Pre-Clinical Prosthodontics (Partial Denture)	Pathology 1	Business Aspects in Dentistry	Clinical Introduction Course
	2	Infection Control in Dentistry	Infection Control in Dentistry	Oral & Maxillofacial Radiology (1)	Preparatory Pre- Clinical Endodontics	Microbiology 1	Implantology	Applied Anatomy
	3	Removable Prosthodontics (1)	Removable Prosthodontics (2)	Local Anesthesia	Preparatory Preclinical Operative Dentistry	<u>Pharmacology 1</u>	Junior Clerkship	Dental Materials Science
	4	Fixed Prosthodontics (1)	Fixed Prosthodontics (1)	Operative Dentistry (2)	Preparatory Preclinical Fixed Prosthodontics	<u>Conservative Dentistry 1 *</u> (Theory)	Endodontics 1	Dental Public Health

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University	
	5	Endodontics (1)	Endodontics (1)	Endodontics (1)	Odontogenic Maxillofacial Pathology	<u>Conservative Dentistry 1 *</u> (Practical))	Community Oral Health Services 3	Human Diseases
	6	Operative Dentistry (1)	Operative Dentistry (2)	Removable Prosthodontics (2)	Basic Oral Radiology	<u>Conservative Dentistry 2</u> <u>Endodontics</u> (Theory)	Orthodontics 1	Oral Diseases
	7	Orthodontics (1)		Fixed Prosthodontics (1)	Oral Diagnosis and Treatment Planning	<u>Conservative Dentistry 2*</u> <u>Endodontics</u> (Practical)	Pedodontics 1	Clinical Skills courses in Restorative Dentistry
	8	Oral Surgery (1)	Oral Surgery (1)	Microbiology & Immunology for Dental Students	General Surgery	<u>Prosthodontics 1 *</u> (Theory)	Oral Pathology	Orthodontics
	9		Oral Radiology	Pharmacology	Skin and Venereal Diseases, Ophthalmology ENT (Otorhinolaryngology)	<u>Prosthodontics 1 *</u> (Practical)	Periodontology	Clinical attachments with associated lectures and seminars in Restorative Dentistry,
	10			Internal Medicine for Dental Students			Dental Pharmacology	Paediatric Dentistry
		Communication skills				Restorative Dentistry/Implantology	Primary Care Outreach (Oral Health Education), Oral Surgery,	

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
			Medical Psychology				Image Interpretation	Dental Emergency Clinic
							Oral Maxillofacial Surgery	Radiology
							Oral Health Research 3	
2								
2	1	Removable Prosthodontics (2)	Removable Prosthodontics (3)	Oral Pathology (2)	Prosthodontics Clinic (Complete Denture)	<u>Pathology 2</u>	Dental Public Health	
	2	Fixed Prosthodontics (2)	Fixed Prosthodontics (2)	Oral & Maxillofacial Radiology (2)	Applied Pre-Clinical Endodontics	<u>Microbiology 2</u>	Business Aspects in Dentistry	
	3	Oral Surgery (2)	Oral Surgery (2)	Exodontia	Applied Preclinical Operative Dentistry	<u>Genetics</u>	Implantology	
	4	Endodontics (2)	Endodontics (2)	Operative Dentistry (3)	Applied Preclinical Fixed Prosthodontics	Pharmacology 2	Junior Clerkship	
	5	Oral Diagnosis	Oral Diagnosis	Endodontics (2)	Non-odontogenic Maxillofacial Pathology	<u>Community Medicine, Epidemiology and Biostatistics</u>	Endodontics 1	
	6	Orthodontics (2)	Orthodontics (1)	Removable Prosthodontics (3)	Advanced Oral Radiology	Conservative Dentistry 1 * (Theory)	Community Oral Health Services 3	
	7	Operative Dentistry (2)	Operative Dentistry (3)	Fixed Prosthodontics (2)	General Medicine	Conservative Dentistry 1 * (Practical)	Orthodontics 1	

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
	8	Forensic medicine		Oral Diagnosis (1)	Elective	Conservative Dentistry 2* Endodontics (Practical)	Pedodontics 1	
	9	Geriatrics Dentistry		General Surgery for Dental Students		Prosthodontics 1 * (Theory)	Oral Pathology	
	10	Anesthesia		Management of medically compromised patient in Dentistry		Prosthodontics 1 * (Practical)	Periodontology	
			Periodontics (1)			<u>Occlusion (Theory)</u>	Dental Pharmacology	
			Pediatric Dentistry (1)			<u>Oral Pathology 1 (Theory)</u>	Restorative Dentistry/Implantology	
						<u>Oral Pathology (Practical)</u>	Image Interpretation	
						<u>Dental Radiology 1 (Theory)</u>	Oral Maxillofacial Surgery	
						<u>Introduction to Clinical Dentistry and Oral Diagnosis (Theory)</u>	Oral Health Research 3	
						<u>Introduction to Clinical Dentistry and Oral Diagnosis (Practical)</u>	Clinical Decision Making 1	
						Psychology for dental students		

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
							Dental Public Health	
							Implantology	
							Junior Clerkship/Summer Clinic	
							Endodontics 1	
							Summer Clinic Externship	
							Orthodontics 1	
							Periodontology	
							Restorative Dentistry/Implantol ogy	
							Image Interpretation	
							Oral Maxillofacial Surgery	
							<i>Pediatric Externship (ELECTIVE)</i>	
Level 4								
Semester	No							
1	1	Oral Surgery (3)	Oral Surgery (3)	Oral Surgery (1)	Prosthodontics Clinic (Partial Denture)	Conservative Dentistry 3* (Theory)	Dental Public Health	Dental Public Health
	2	Oral Medicine (1)	Oral Medicine (1)	Pedodontics (1)	Basic Clinical Endodontics	Conservative Dentistry 3*	Business Aspects in Dentistry	Dental Sedation

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University	
					(Practical)			
	3	Periodontics (1)	Periodontics (2)	Periodontology (1)	Basic Clinical Operative Dentistry	Conservative Dentistry 4 Crown & Bridge (Theory)	Implantology	Human Diseases
	4	Removable Prosthodontics (3)	Removable Prosthodontics (4)	Operative Dentistry (4)	Basic Clinical Fixed Prosthodontics	Conservative Dentistry 4* Crown & Bridge (Practical)	Junior Clerkship	Oral Diseases
	5	Fixed Prosthodontics (3)	Fixed Prosthodontics (3)	Endodontics (3)	Pain Control and Exodontia	Prosthodontics 2* (Theory)	Endodontics 1	Clinical Skills courses in Restorative Dentistry Oral Surgery
	6	Endodontics (3)	Endodontics (3)	Removable Prosthodontics (4)	Disorders Involving Oral Mucosa	Prosthodontics 2* (Practical)	Community Oral Health Services 3	Clinical attachments with associated lectures and seminars in Restorative Dentistry, Paediatric Dentistry, Primary Care Outreach and Oral Surgery
	7	Pediatric Dentistry (1)	Pediatric Dentistry (2)	Fixed Prosthodontics (3)	Etiology and Pathogenesis Periodontal Diseases	Dental Materials 2 (Theory)	Orthodontics 1	

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University		21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
	8	Orthodontics (3)	Orthodontics (2)	Orthodontics (1)	Pre-Clinic Pediatric Dentistry	<u>Periodontics 1 *</u> (Theory)	Pedodontics 1	
	9	Oral Radiology		Oral Diagnosis (2)	Basics in Orthodontics	<u>Oral Pathology 2</u> (Theory)	Oral Pathology	
	10	Operative Dentistry (3)	Operative Dentistry (4)	Dental Therapeutic		<u>Oral Medicine</u> 1* (Theory)	Periodontology	
	11	Dental photography (1)				<u>Screening and</u> <u>Oral diagnosis *</u> (Practical)	Dental Pharmacology	
	12		Preventive Dentistry (1)			<u>Dental Radiology</u> (Clinical)	Restorative Dentistry/Implantol ogy	
						<u>Oral Surgery 1 *</u> (Theory)	Image Interpretation	
						<u>Oral Surgery 1 *</u> (Practical)	Oral Maxillofacial Surgery	
						<u>Anesthesiology (</u> <u>Theory)</u>	Oral Health Research 3	
						<u>Orthodontics 1 *</u> (Theory)	Clinical Decision Making 1	
						<u>Orthodontics 1*</u> (Practical)		
						<u>Internal Medicine</u> <u>for dental</u> <u>students</u>		
2	1	Oral Surgery (4)	Oral Surgery (4)	Oral Surgery (2)	Advanced	Conservative	Dental Public	

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University	21 SEPTEMBER. University	Sana'a University	University of sciences and technology	Alexandria University	The University of Jordan	Mcgill University	Newcastle University
				Prosthodontics Clinic	Dentistry 3 * (Theory)	Health	
2	Oral Medicine (2)	Oral Medicine (2)	Pedodontics (2)	Integrative Clinical Endodontics	Conservative Dentistry 3 * (Practical)	Implantology	
3	Periodontics (2)	Periodontics (3)	Periodontology (2)	Integrative Clinical Operative Dentistry	Conservative Dentistry 4 * Crown & Bridge (Practical)	Junior Clerkship/Summer Clinic	
4	Removable Prosthodontics (4)	Removable Prosthodontics (5)	Operative Dentistry (5)	Integrative Clinical Fixed Prosthodontics	Prosthodontics 2* (Theory)	Endodontics 1	
5	Fixed Prosthodontics (4)	Fixed Prosthodontics (4)	Endodontics (4)	Minor Oral and Maxillofacial Surgery and General Anesthesia	Prosthodontics 2* (Practical)	Summer Clinic Externship	
6	Endodontics (4)	Endodontics (4)	Removable Prosthodontics (5)	Topics in Oral Medicine	Periodontics 1* (Theory)	Orthodontics 1	
7	Pediatric Dentistry (2)	Pediatric Dentistry (3)	Fixed Prosthodontics (4)	Periodontal Diseases	Periodontics 1 (Practical)	Periodontology	
8	Orthodontics (4)	Orthodontics (3)	Orthodontics (2)	Pediatric Dentistry	Oral Medicine 1 * (Theory)	Restorative Dentistry/Implantology	
9	Preventive Dentistry (1)	Preventive Dentistry (2)	Oral Medicine (1)	Prevention of Oral Diseases	Screening and Oral diagnosis * (Practical)	Image Interpretation	
10	Operative Dentistry (4)		Biostatistics in Dentistry	Orthodontics Diagnosis &	Oral Surgery 1 * (Theory)	Oral Maxillofacial Surgery	

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					Treatment Planning			
	11	Dental photography (2)				Oral Surgery 1 * (Practical)	Pediatric Externship (ELECTIVE)	
	12					Orthodontics 1 * (Theory)		
						Orthodontics 1 * (Practical)	Ethics & Jurisprudence	
						<u>Pediatric Dentistry 1 (Theory)</u>	Practice Management	
						<u>Pediatric Dentistry 1 (Practical)</u>	Senior Clerkship	
						<u>Preventive Dentistry 1 (Theory)</u>	Endodontics 2	
						<u>General Surgery for dental students</u>	Oral Facial Pain	
						Conservative Dentistry 3 * (Theory)	Orthodontics 2	
						Conservative Dentistry 3 * (Practical)	Pedodontics 2	
						Conservative Dentistry 4 * Crown & Bridge (Practical)	Oral Surgery & Pathology	

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					Prosthodontics 2* (Theory)	Periodontology Seminar	
					Prosthodontics 2* (Practical)	<i>Periodontics Clerkship (ELECTIVE)</i>	
					Periodontics 1* (Theory)	<i>International Outreach Externship Program (ELECTIVE)</i>	
					Periodontics 1 (Practical)		
					Oral Medicine 1 * (Theory)		
					Screening and Oral diagnosis * (Practical)		
					Oral Surgery 1 * (Theory)		
					Oral Surgery 1 * (Practical)		
					Orthodontics 1 * (Theory)		
					Orthodontics 1 * (Practical)		
					<u>Pediatric Dentistry 1 (Theory)</u>		
					<u>Pediatric Dentistry 1 (Practical)</u>		
					<u>Preventive Dentistry 1</u>		

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						(Theory)		
						<u>General Surgery for dental students</u>		
Level 5								
Semester	No							
1	1	Digital dentistry (1)		Oral & Maxillofacial Surgery (1)	Comprehensive prosthodontics	<u>Conservative Dentistry 5 *</u> (Theory)		Current Opinion in Dentistry
	2	Oral Medicine (3)	Oral Medicine (3)	Community Dentistry (1)	Advanced Clinical Endodontics	<u>Conservative Dentistry 5 *</u> (Practical)		Dental Public Health
	3	Oral Surgery (5)	Oral Surgery (5)	Pedodontics (3)	Advanced Clinical Operative Dentistry	<u>Prosthodontics 3 *</u> (Theory)		Gerodontology
	4	Preventive Dentistry (2)		Periodontology (3)	Advanced Clinical Fixed Prosthodontics	<u>Prosthodontics 3 *</u> (Practical)		Oral Diseases
	5	Periodontics (3)	Periodontics (4)	Orthodontics (3)	Major Oral and Maxillofacial Surgery	<u>Periodontics 2</u> (Theory)		Clinical attachments with associated lectures and seminars in Restorative Dentistry, Paediatric Dentistry, Primary

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							Care Outreach, Dental Emergency Clinic and Oral and Maxillofacial Surgery
6	Pediatric dentistry (3)	Pediatric dentistry (4)	Oral Medicine (2)	Diseases Affecting Oral Cavity and Their Management	<u>Periodontics 2 * (Practical)</u>		
7	Comprehensive Clinical Practice (1)	Comprehensive Clinical Practice (1)	Comprehensive Clinical Restorative Practice (1)	Management of Periodontal Diseases	<u>Oral Medicine 2 (Theory)</u>		
8	Occlusion and Temporomandibular Disorders	Occlusion and Temporomandibular Disorders	Comprehensive Clinical Prosthodontics Practice (1)	Pediatric Dentistry Clinic	<u>Oral Medicine * (Practical)</u>		
9	Removable Prosthodontics (5)		Basic Scientific Research in Dentistry	Evidence Based Dentistry	<u>Dental Radiology 2 (Theory)</u>		
10	DSD & Dental design (1)		Elective Course (1)	Elective	<u>Oral Surgery 2 * (Theory)</u>		
		Orthodontics (4)			<u>Oral Surgery 2 * (Practical)</u>		
		Research Methodology and Biostatistics			<u>Orthodontics 2 (Theory)</u>		
					<u>Orthodontics 2* (Practical)</u>		
					<u>Pediatric Dentistry</u>		

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						2 (Theory)		
						<u>Pediatric Dentistry</u> 2 * (Practical)		
						<u>Preventive Dentistry 2</u> (Theory)		
Semester	No							
2	1	Periodontics (4)		Oral & Maxillofacial Surgery (2)	Advanced Oral and Maxillofacial Surgery	Conservative Dentistry 5 * (Theory)		
	2	Pediatric Dentistry (4)		Community Dentistry (2)	Research Project	Conservative Dentistry 5 * (Practical)		
	3	Comprehensive Clinical Practice (2)	Comprehensive Clinical Practice (2)	Pedodontics (4)	Comprehensive Dental Care Clinic (CCC)	Prosthodontics 3 * (Theory)		
	4	Cardiopulmonary resuscitation + Medical emergency in dentistry		Periodontology (4)	Comprehensive Pediatric Clinic	Prosthodontics 3 * (Practical)		
	5	Digital dentistry (2)		Orthodontics (4)	Elective	Periodontics 2 * (Practical)		
	6	DSD & Dental design (2)		Comprehensive Clinical Restorative Practice (2)		Oral Medicine * (Practical)		
	7	Research Methodology		Comprehensive Clinical Prosthodontics Practice (2)		Oral Surgery 2 * (Theory)		

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	8	Graduation Research		Implant Dentistry		Oral Surgery 2* (Practical)		
	9			Elective Course (2)		Orthodontics 2* (Practical)		
				Elective Course (3)		Pediatric Dentistry 2* (Practical)		
						<u>Community Dental Health</u>		
						<u>Law & Ethics in Dentistry (Theory)</u>		
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Assoc. Prof. Muneer Alwesabi.

Prof. Mojahed Measar

Annex-16, Comparison of Program Courses and Similar Programs Courses

#	21 SEPTEMBER. University				Sana'a University				University of sciences and technology				Alexandria University				The University of Jordan				Mcgill University				Newcastle University								
	Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours						
		C	L	P	T		C	L	p	T		C	L	P	T		C	L	P	T		C	L	P	T		C	L	P	T			
1	National culture	2	2	0	0	National culture	2	2			National culture	2	2			-	-			National culture	3				-				-				
2	English Language (1)	2	2	0	0	English Language (1)	2	2			English Language(1)	2		4		-				English Language Skills	3												
3	Arabic Language (1)	2	2	0	0	Arabic Language (1)	2	2			Arabic Language (1)	2	2			لغة عربية لغير الناطقين				Basics of Arabic	3												

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#	21 SEPTEMBER University				Sana'a University				University of sciences and technology				Alexandria University				The University of Jordan				Mcgill University				Newcastle University										
	Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours								
		C H	L	P	T		C H	L	p	T		C H	L	P	T		C H	L	P	T		C H	L	P	T		C H	L	P	T					
4	Computer Skills	3	2	2	0	Computer Skills	2	2	2	Computer Skills	2	4	-	-	-	-	Basics of Computing	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Arabic Language (2)	2	2	0	0	Arabic Language (2)	2	2	-	Arabic Language(2)	2	2	Arabic Languages Skills	-	-	-	Arabic Languages Skills	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	English Language (2)	2	2	0	0	English Language (2)	2	2	-	English Language (2)	2	4	-	-	-	-	English Language	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Prof. Mojahed Measar

#	21 SEPTEMBER University				Sana'a University				University of sciences and technology				Alexandria University				The University of Jordan				Mcgill University				Newcastle University												
	Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours										
		C H	L	P	T		C H	L	p	T		C H	L	P	T		C H	L	P	T		C H	L	P	T		C H	L	P	T							
36	Oral Histology and Embryology (1)	2	1	2	---	Oral Histology and Embryology (1)	2	1	2	---	Oral Histology(1)	2	1	2	---	Alexandria University	-	-	-	-	-	-	Oral Histology	2	1	1	---	Mcgill University	-	-	-	-	Newcastle University	-	-	-	-
37	Oral Histology and Embryology (2)	2	1	2	---	Oral Histology and Embryology (2)	2	1	2	---	Oral Histology(2)	2	1	2	---	Alexandria University	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
38	Oral pathology	2	1	2	---	Oral pathology	2	1	2	---	Oral pathology(1&2)	2&2	1&1	2&2	---	Alexandria University	-	-	-	-	-	-	Oral pathology	1	---	0.5	---	Mcgill University	-	-	-	-	Newcastle University	-	-	-	-

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	Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours											
		C H	L	P	T		C H	L	p	T		C H	L	P	T		C H	L	P	T		C H	L	P	T		C H	L	P	T								
77	Orthodontics (2)	2	1	2	----	Orthodontics (2)	2	1	2	----	Orthodontics (2)	2	1	2	-	-	-	-	-	-	Orthodontics (2)	-	-	-	0.5	-	-	-	-	Orthodontics (2)	3.5	-	-	-	-	-	-	-
78	Orthodontics (3)	2	1	----	3	Orthodontics (3)	2	1	----	2	Orthodontics (3)	2	1	----	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
79	Orthodontics (4)	2	1	----	3	Orthodontics (4)	2	1	----	2	Orthodontics (4)	2	1	----	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Level semester	Course Code	Courses	Credit hours	Lectures	Lab hours	Training	Program ILOs																											
							Knowledge and Understanding						Intellectual Skills						Professional and Practical Skills							Transferable Skills								
							A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	D6	D7		
65		Oral Surgery (3)	2	1	-	3		I		A			M	M	A	I	M		P			P	M	p										
66		Oral Surgery (4)	2	1	-	3		I		A			M	M	A	I	M		P			P	M	p										
67		Oral Surgery (5)	2	1	-	3		I		A			M	M	A	I	M		P			P	M	p										
68		Periodontics (1)	2	1	-	3				M				M	M		M		P			P												
69		Periodontics (2)	2	1	-	3				M				M	M		M		P			P												
70		Periodontics (3)	2	1	-	3				A				M	A		M		P			P												
71		Periodontics (4)	2	1	-	3				A				M	A		M		P			P												
72		Pediatric Dentistry (1)	2	1	-	3				M				M	M		M		P			P												
73		Pediatric Dentistry (2)	2	1	-	3				M				M	M		M		P			P												
74		Pediatric Dentistry (3)	2	1	-	3				A				M	A		M		P			P												
75		Pediatric dentistry (4)	2	1	-	3				A				M	A		M		P			P												
76		Orthodontics (1)	2	1	2	-				M				M	M		M		P			P												
77		Orthodontics (2)	2	1	2	-				M				M	M		M		P			P												
78		Orthodontics (3)	2	1	-	3				A				M	A		M		P			P												
79		Orthodontics (4)	2	1	-	3				A				M	A		M		P			P												
80		Comprehensive Clinical Practice (1)	5	2	-	9				M			M	M	M		M		P			P						P						
81		Comprehensive Clinical Practice (2)	8	2	-	18				A			M	M	A		M		P			P						P						
82		Preventive Dentistry (1)	2	1	-	3				M				M	M		M		P			P												

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Program Intended Learning Outcomes (PILOs): Bachelor Dental Surgery Program at 21 September University

Program Intended Learning Outcomes (PILOs):

A. KNOWLEDGE AND UNDERSTANDING

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- A1.** Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
- A2.** Explain the structure and function of the human body in health and disease related to the practice of dentistry.
- A3.** Identify the rules and ethics governing dental practices.
- A4.** Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.
- A5.** Show an understanding of the psychological, cultural and social factors that have implications on oral disease management and prevention.
- A6.** Explain of the digital technology in dentistry & Explain the principles of evidence-based dentistry and its relation to scientific research

B. COGNITIVE/INTELLECTUAL SKILLS

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- B1.** Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
- B2.** Evaluation of critical thinking and evidence-based problem solving when providing patient's care.
- B3.** Prioritize patient's treatment needs and formulate an appropriate treatment plan.
- B4.** Construct preventive strategies at different levels according to the targeted individual and community needs.
- B5.** Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.
- B6.** Analyze of Artificial intelligence (AI) and digital technology in dentistry to solve the problems of oral and dental surgery and recreate the reasonable solutions.

Program Intended Learning Outcomes (PILOs):

C. PRACTICAL AND PROFESSIONAL SKILLS:

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- C1.** Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment.
- C2.** Detect pathological conditions related to the dental practice.
- C3.** Use infection control protocol and radiation protection regulation according to international standards.
- C4.** Apply comprehensive clinical practices & Apply preventive measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly.
- C5.** Plan when, how and where to refer a patient to a specialist based on clinical assessment.
- C6.** Ability to assess the risk of medical emergencies and be competent in their management within the dental practice setup.
- C7.** Practicing Artificial intelligence (AI) and digital technology in dentistry.

D. GENERAL / TRANSFERABLE SKILLS

Upon successful completion of an undergraduate Dentistry education program, the graduates will be able to:

- D1.** Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
- D2.** Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means ethically.
- D3.** Work individually and in team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D4.** Use advanced information and communication technologies to enrich and diversify professional experience.
- D5.** Exhibit leadership and Management skills to set treatment priorities and work to prescribed time limits.
- D6.** Maintain full and accurate clinical records (manual and electronic).
- D7.** Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice.

Annex- 18 CVs for the Preparation Committee

Preparation Committee:

1. Prof. Abdulwahab Al-kholani
2. Asiss. Prof. Yaser A. S. Alrubaidi
3. Dr. Yaser Basheer.

Program Coordinator:

Prof. Abdulwahab Al-kholani

Review by:

1. Prof. Mojahed Measar
2. Prof. Muta'a Abuarij
3. Assoc. Prof. Muneer Alwesabi.
4. Assis.prof. Jamil Mujaly

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