

The National University- Sana'a

Faculty of Medical Science Department of Dentistry

College of dentistry

Department of Oral and Dental Surgery



الجمهورية اليمنية  
وزارة التعليم العالي والبحث العلمي  
الجامعة الوطنية - صنعاء  
كلية طب الأسنان  
قسم طب وجراحة الفم والأسنان

**The National University**  
**Faculty of Medical of Medical Science**  
**Department of Dentistry**  
**Bachelor of Dental Surgery**  
**(BDS) program**

**Preparation Committee:**

1. Prof. Dr. Ahmed Obeyah
2. Associated Prof. Dr. Ibrehim Al-Shami
3. Assistant Prof. Dr. Sam Da'er
4. Assistant Prof. Dr. Abdul Fatah Salam

## Academic Program Specification Form

University Name: The National University - Faculty Name: Faculty of Oral and Dental- Department Name: Dentistry.

### 1. Basic Information of the Program

<b>Program Title (Scientific Degree)</b>	Bachelor of Dental surgery ( BDS)
<b>Responsible Authority for Granting the Academic Degree (Faculty)</b>	The National University -Faculty of Medical Science - Department of Dentistry
<b>Responsible Authority for the Program (Department)</b>	Department of Dentistry- Faculty of Medical Science - The National University
<b>Scientific Departments Participating in the Program</b>	Non
<b>Language of Teaching the Program</b>	English
<b>New Program Start Date</b>	
<b>Modes of Attendance Offered</b>	Full time
<b>Location of Program Implementation</b>	Department of Dentistry -Faculty of Dentistry - The National University
<b>System of Study</b>	Regular attendance 75%
<b>Total Time of the Program</b>	Years (10 Academic semester 5) (5+1)
<b>Professions/Occupations for which Students are Prepared:</b>	Bachelor Degree of Dental Surgery

<b>Total credit hours required to award the degree</b>	235 Credit Hours (without Internship )
<b>Targeted Qualification Level(s) of the Program</b>	Dentist
<b>Qualification Required for Admission</b>	Secondary School Certificate (Scientific)
<b>Required Grade for Admission</b>	As per Regulations of the Ministry of Higher Education and Scientific Research
<b>Other Conditions</b>	Regulation & Rules of Student Affairs
<b>Program Coordinator's Name</b>	
<b>Date of Last Approval of the Program Specification</b>	

## 2. Mission and Objectives of the Faculty

### Faculty Mission

The faculty of Medical Sciences seeks to prepare qualified graduates scientifically and practically in the medical and health fields, who are able to compete locally and regionally, by providing distinguished educational programs in accordance with high quality standards, to meet the needs of the local community, and the requirements of the local and regional labor market.

### Faculty Objectives

1. Preparing highly qualified cadres in various scientific fields capable of keeping pace with the requirements of sustainable development and engaging in the labor market
2. Creating and developing academic programs to keep pace with modern scientific developments in line with the needs of the labor market.
3. Encouraging scientific research and participating in conferences and scientific activities both internally and externally
4. Contribute to community service through studies, consultations and continuous training programs.
5. Communication and partnership with universities and research institutions locally, regionally and

internationally

### 3. Mission and Objectives of the Scientific Department which is Responsible for Developing the Program.

#### Mission of the Scientific Department

In response to the community's need in oral and dental medicine and surgery, was established this section to build qualified cadres scientifically and practically and ethically to provide quality treatment services, high-quality community through accurate scientific decisions and a cadre of teaching distinct and in a stimulating learning environment in accordance with modern and advanced capabilities.

#### Objectives of the Scientific Department

1. Providing a level of education and training that rehabilitates dentists with high standards and efficiency
2. Providing curative and preventive services to members of the community through dental clinics in the college
3. Developing courses within a systematic plan by involving students and beneficiaries in the evaluation process
4. Develop the skills of faculty members to keep pace with developments in the means and methods of teaching, learning and assessment
5. Continuous updating of the infrastructure of the college, including laboratories and clinics, in order to keep pace with developments Scientific and professional in the field of dentistry
6. Commitment to the fields of scientific research and motivating faculty members to conduct scientific research Publishing and organizing scientific conferences and symposia
7. Working on activating partnerships and developing relations with dental colleges and research institutions Scientific internally and externally
8. Connecting graduates to the department by communicating with them in order to develop their professional and research expertise

### 4. Program References (Benchmarks)

<b>NO</b>	<b>Country</b>	<b>University Name</b>	<b>Faculty Name</b>	<b>Department Name</b>	<b>Program Title</b>	<b>Department URL</b>
1	Yemen	Aden University	Faculty of dentistry		B.Sc. of (DMD)	<a href="http://www.euni.de/tools/jobpopup.php?lang=en&amp;option=showJobs&amp;jobid=13818&amp;jobtyp=8&amp;university=University+of+Aden&amp;country=YE&amp;sid=5921">http://www.euni.de/tools/jobpopup.php?lang=en&amp;option=showJobs&amp;jobid=13818&amp;jobtyp=8&amp;university=University+of+Aden&amp;country=YE&amp;sid=5921</a>
2	Yemen	University of Scientific and Technology Yemen	Faculty of dentistry		B.Sc. of (DMD)	<a href="https://ust.edu.ye/en/about-university/">https://ust.edu.ye/en/about-university/</a>
3	Jordan	Jordan University of Science and Technology	Faculty of dentistry		Bachelor degree in Dental Surgery (BDS)	<a href="https://www.just.edu.jo/FacultiesandDepartments/FacultyofDentistry/Pages/Default.aspx">https://www.just.edu.jo/FacultiesandDepartments/FacultyofDentistry/Pages/Default.aspx</a>
4	Egypt	October University for Modern Sciences and Arts	Faculty of Dentistry		Bachelor in Dental Surgery (BDS)	
5	United States of America	University of Florida	College of Dentistry		D.M.D	<a href="https://catalog.ufl.edu/UGRD/academic-programs/dentistry/">https://catalog.ufl.edu/UGRD/academic-programs/dentistry/</a>
6	India	Amrita University	School of Dentistry		BACHELOR OF DENTAL SURGERY (B.DEN.SUR)	<a href="https://www.amrita.edu/school/dentistry">https://www.amrita.edu/school/dentistry</a>



## 5. Program Mission

Mentioned above under "Dept. Mission."

## 6. Program Objectives

Mentioned above under "Dept. Aims."

## 7. Program Intended Learning Outcomes (PILOs)

### A) Knowledge and Understanding Skills

Upon successful completion of an undergraduate dental surgery 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 the principles of evidence-based dentistry and its relation to scientific research

### B) Intellectual Skills

Upon successful completion of the undergraduate Bachelor of Dental surgery ( BDS) 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 patients treatment needs and formulate An awareness that dentists should strive to provide the highest possible quality of patient care an appropriate treatment plan.
- B4. Construct preventive strategies at different levels according to the targeted individual and community needs.
- B5. Select suitable dental materials, instruments, procedures and prescribe medicaments to be used in a specific clinical situation.

### **C) Professional and Practical Skills**

Upon successful completion of the undergraduate Bachelor of Dental surgery ( BDS) Program, the graduates will be able to:

- C1. Obtain and record a comprehensive history, perform an appropriate physical examination, interpret the findings and organize appropriate further 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.
- C6. Assess the risk of medical emergencies and be competent in their management within the dental practice setup.
- C7. Apply comprehensive clinical practices and evidence-based treatment

### **D) General and Transferable Skills**

Upon successful completion of the undergraduate Bachelor of Dental surgery ( BDS) Program, the graduates will be able to:

- D.1 Commit to continuous education, self-development and long-life learning to remain updated with advances in dental practice.
- D.2 Use advanced information and communication technologies to enrich and diversify professional experience.

- D.3 Demonstrate leadership and teamwork skills with colleagues and other oral health team for effective delivery of oral health care.
- D.4 Manage time, set treatment priorities and work to prescribed time limits
- D.5 Maintain full and accurate clinical records (manual and electronic).
- D.6 Display appropriate attitudes both on personal and professional levels to keep an excellent regard of the profession in the society.
- D.7 Identify patients' expectations, desires and attitudes when considering treatment planning.
- D.8 Analyze and resolve problems and deal with uncertainty

## 8. Curriculum Mapping

I = Introduced

E = Extension

A = Application

No.	Courses	Sub-Program Learning Outcomes																									
		First Year / First Semester																									
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8		
1	Arabic language 1																				I	I					
2	Islamic culture			I																	I	I					
3	English language 1																				I	I	I	I			
4	Arabic Israeli conflict			I																	I	I					





No.	Courses	Sub-Program Learning Outcomes																											
		Second Year / First Semester																											
		a	a	a	a	a	a	b	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d	
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8				
1	Biostatistics						I	I												I	I	I	I				I		
2	Microbiology and Immunology	I	I		I			I						I							I		I	I					
3	Anatomy (Head and Neck)	I	I					I						I							I								
4	Physiology (1)	I	I		I			I						I							I	I				I			
5	Biochemistry (1)	I	I		I																I	I	I						
6	Oral Histology (1)	I	I					I						I							I					I			
7	Dental materials (1)	I					I						I	I							I			I			I		
8	Medical Ethics			E		E			E	I	I			I							I	E		E			I	I	I

No.	Courses	Sub-Program Learning Outcomes																										
		Second Year / Second Semester																										
		a	a	a	a	a	a	b	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8			
1	General pathology		E							I											I	E						
2	Physiology (2)	I	I							I												I					I	
3	Biochemistry (2)	I	I		I																	I	I	I				



9	Pre-clinical Endo (1)	I	I		I		I	I		I		I									I	I		I							
10	Pre-clinical Fixed Prosthodontics (1)	I	I		I		I	I		I		I		I																	

No.	Courses	Sub-Program Learning Outcomes																												
		Third Year / Second Semester																												
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d	d	d	d
1	General Surgery	I	I	I	I		I	I	I	I		I	I	I	I		I	I	I											
2	Oral pathology (2)	E	E								E		E	E				E	E											
3	Oral Diagnosis and Radiology (2)	E	E								E		E	E				E	E											
4	Pre-clinical Operative Dentistry (3)	E	E			E		E	E		E		E																	
5	Pre-clinical Removable Prosthodontics (3)			E	E		E	E	E	E	E	E	E	E	E	E	E	E												
6	Pre-clinical Fixed Prosthodontics (2)	E	E			E		E	E		E		E																	
7	Pre-clinical Endo (2)	E	E			E		E	E		E		E																	
8	Psychology					E																								
9	Dental Anesthesia and exodontia	I	I	I	I		I	I	I	I		I	I		I															

No.	Courses	Sub-Program Learning Outcomes																									
		Fourth Year / First Semester																									
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8		
1	Clinical Removable Prosthodontics (1)	E	E		E		E	E		E	E		E							I	I						
2	Oral surgery (1)	I	I	I	I	I				I	I	I	I	I	I	I	I	I		I	I	I					
3	Clinical Operative Dentistry (1)			E	E	E	E	E	E	E	E	E	E	E	E	E	E			I	I	I	I	I	I	I	
4	Oral Medicine (1)			I	I	I	I	I	I	I	I	I	I	I	I	I	I			I	I	I	I	I	I	I	
5	Periodontology (1)		I		I	I		I				I	I	I	I					I		I					
6	Clinical Endodontic (1)			E	E	E	E	E	E	E	E	E	E	E	E	E	E			I	I	I	I	I	I	I	
7	Orthodontics (1)			I	I	I	I	I	I											I	I	I			I	I	
8	Clinical Fixed Prosthodontics (1)			E	E		E	E		E	E	E	E	E	E	E	E			I	I	I	I	I	I	I	



No.	Courses	Sub-Program Learning Outcomes																											
		Fourth Year / Second Semester																											
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8				
1	Clinical Removable Prosthodontics (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
2	Oral surgery (2)	E	E	E	E			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
3	Clinical Operative Dentistry (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
4	Oral Medicine (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
5	Periodontology (2)			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
6	Clinical Endodontic (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
7	Orthodontics (2)			I	I	I	I	I	I																				
8	Clinical Fixed Prosthodontics (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
9	Pedodontics (1)	I	I		I	I	I					I	I	I	I														

No.	Courses	Sub-Program Learning Outcomes																											
		Fifth Year / First Semester																											
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8				
1	Oral & Maxillofacial surgery (1)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	I	I	I	I	I	I	I	I	I		
2	Periodontology (3)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
3	Pedodontics (2)	E			E		E	E		E	E	E	E	E	E			E		I	I	I	I	I	I				
4	Orthodontics (3)			E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E	E	E		
5	Preventive dentistry (1)			I		I	E		I		I								I	I	I			I		I			
6	Oral Medicine (3)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
7	Comprehensive clinical dentistry (1)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
8	Research Methodology						I		I										I	I	I	I				I			

No.	Courses	Sub-Program Learning Outcomes																											
		Fifth Year / Second Semester																											
		a	a	a	a	a	a	b	b	b	b	b	c	c	c	c	c	c	c	d	d	d	d	d	d	d	d	d	d
1	2	3	4	5	6	1	2	3	4	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8				
1	Oral & Maxillofacial surgery (2)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
2	Periodontology (4)			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
3	Pedodontics (3)				E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	I	I	I	I	I	I		I		



<b>Case study</b>	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
<b>Clinical</b>	Observations made or work carried on in a natural setting. Used only in some courses.
<b>Problem solving</b>	The study of Information Technology involves applying knowledge and problem-based learning. This allows students to become more active in their learning as they work out which information they need to find out how to solve a particular problem. They can work out a problem collaboratively, practice research and information processing and develop debating and analytical skills.
<b>Brainstorming</b>	It involves a large or small group activity that encourages students to focus on a topic and contribute to the free flow of ideas. The teacher may begin a brainstorming session by posing a question or a problem, or by introducing a topic. Students then express possible answers, relevant words and ideas

## 10. Assessment Strategies

<b>Assessment Methods</b>	<b>Its description, in which level is used and its percentage</b>
<b>Written tests ( mid, final terms and quizzes)</b>	Mid-term test is conducted in the 8 <sup>th</sup> 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.
<b>Oral exams</b>	For all courses except for project
<b>Report/Project/ Practical Lab Sessions</b>	For all courses except for project
<b>Coursework Activities</b>	The entire assessment of coursework activities during the teaching period of each course (which includes group and individual work, tests and presentations, etc.)
<b>Home work</b>	For all courses except for project

## 11. System of Study

### 1. Number of Credit Hours Required to Complete the Program

	Number of Credit Hours		
	Mandatory	Optional	Total
University Requirements	18	///	18
Faculty Requirements	18	///	18
Specialization requirements	199	///	199
<b>Total</b>	<b>235</b>		<b>235</b>

## 2. Number of Hours and Their Percentage of the Total Program Hours

Requirements	Number of Courses	Number of Hours	Ratio	
			Course	Hours
University Requirements	9	18	10.5%	7.66%
Faculty Requirements	8	18	9.3%	7.66%
Department Requirements	69	199	80.2%	84.68%
<b>Total</b>	<b>86</b>	<b>235</b>	<b>100%</b>	<b>100%</b>

## 12. Study Plan

### Frist Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	



Arabic language 1	University Requirement	2	2			
Islamic culture	University Requirement	2	2			
English language 1	University Requirement	2	2			
Arabic Israeli conflict	University Requirement	2	2			
Computer Skills	University Requirement	2	1		2	
General Chemistry	Faculty Requirement	3	2		2	
General Biology	Faculty Requirement	3	2		2	
Medical Physics	Faculty Requirement	3	2		2	
Dental Morphology 1		3	2		3	Dentistry
<b>Total</b>		<b>22</b>	<b>17</b>		<b>11</b>	

### Second Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Arabic language 2	University Requirement	2	2			
English language 2	University Requirement	2	2			
Nationality culture	University Requirement	2	2			

Communications skills	University Requirement	2	2			
Medical terminology	Faculty Requirement	2	2			
General Anatomy		3	2		2	Dentistry
Organic chemistry		3	2		2	Dentistry
Dental Morphology 2		3	2		3	Dentistry
General histology & embryology		3	2		2	Dentistry
<b>Total</b>		<b>22</b>	<b>18</b>		<b>9</b>	

### Third Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Biostatistics	Faculty Requirement	2	2			
Microbiology and Immunology		4	3		2	Dentistry
Anatomy (Head and Neck)		3	2		2	Dentistry
Physiology (1)		3	2		2	Dentistry
Biochemistry (1)		3	2		2	Dentistry
Oral Histology (1)		3	2		2	Dentistry
Dental materials (1)		2	2			Dentistry
Medical Ethics		2	2			Dentistry
<b>Total</b>		<b>22</b>	<b>17</b>		<b>10</b>	

Fourth Semester						
Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
General pathology		3	2		2	Dentistry
Physiology (2)		3	2		2	Dentistry
Biochemistry (2)		3	2		2	Dentistry
Oral Histology (2)		3	2		2	Dentistry
Dental materials (2)		3	2		2	Dentistry
Pre-clinical Operative dentistry (1)		3	2		3	Dentistry
Pre-clinical Removable Prosthodontics (1)		3	2		3	Dentistry
Genetic		2	2			Dentistry
Patient Assessment & First Aid	Faculty Requirement	1			2	
<b>Total</b>		<b>24</b>	<b>16</b>		<b>18</b>	

Fifth Semester						
Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Pharmacology		3	3			Dentistry
Public health	Faculty Requirement	2	2			

Oral pathology (1)		3	2		2	Dentistry
Oral Diagnosis and Radiology (1)		3	2		2	Dentistry
Pre-clinical Operative Dentistry (2)		3	2		2	Dentistry
Pre-clinical Removable Prosthodontics (2)		3	2		2	Dentistry
General Medicine		2	2			Dentistry
Medically compromised patient		1	1			Dentistry
Pre-clinical Endo (1)		3	2		3	Dentistry
Pre-clinical Fixed Prosthodontics (1)		3	2		3	Dentistry
<b>Total</b>		<b>26</b>	<b>20</b>		<b>14</b>	

### Sixth Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
General Surgery		2	2			Dentistry
Oral pathology (2)		3	2		2	Dentistry
Oral Diagnosis and Radiology (2)		3	2		2	Dentistry
Pre-clinical Operative Dentistry (3)		3	2		3	Dentistry
Pre-clinical Removable Prosthodontics (3)		3	2		3	Dentistry
Pre-clinical Fixed Prosthodontics (2)		3	2		3	Dentistry
Pre-clinical Endo (2)		3	2		3	Dentistry

Psychology		1	1			Dentistry
Dental Anesthesia and exodontia		2	2			Dentistry
<b>Total</b>		<b>23</b>	<b>17</b>		<b>16</b>	

### Seventh Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Clinical Removable Prosthodontics (1)		3	2	3		Dentistry
Oral surgery (1)		3	2	3		Dentistry
Clinical Operative Dentistry (1)		3	2	3		Dentistry
Oral Medicine (1)		3	2	3		Dentistry
Periodontology (1)		3	2	3		Dentistry
Clinical Endodontic (1)		3	2	3		Dentistry
Orthodontics (1)		3	2		2	Dentistry
Clinical Fixed Prosthodontics (1)		3	2	3		Dentistry
<b>Total</b>		<b>24</b>	<b>16</b>	<b>21</b>	<b>2</b>	

### Eight Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Clinical Removable		3	2	3		Dentistry



Prosthodontics (2)						
Oral surgery (2)		3	2	3		Dentistry
Clinical Operative Dentistry (2)		3	2	3		Dentistry
Oral Medicine (2)		3	2	3		Dentistry
Periodontology (2)		3	2	3		Dentistry
Clinical Endodontic (2)		3	2	3		Dentistry
Orthodontics (2)		3	2		2	Dentistry
Clinical Fixed Prosthodontics (2)		3	2	3		Dentistry
Pedodontics (1)		2	2			Dentistry
<b>Total</b>		<b>26</b>	<b>18</b>	<b>21</b>	<b>2</b>	

### Ninth Semester

Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
						Dentistry
Oral & Maxillofacial surgery (1)		3	2	3		Dentistry
Periodontology (3)		3	2	3		Dentistry
Pedodontics (2)		3	2	3		Dentistry
Orthodontics (3)		3	2	3		Dentistry
Preventive dentistry (1)		3	2	3		Dentistry
Oral Medicine (3)		3	2	3		Dentistry

Comprehensive Clinical Dentistry (1)		4	2	6		Dentistry
Research Methodology	Faculty Requirement	2	2			
<b>Total</b>		<b>24</b>	<b>16</b>	<b>24</b>		

Tenth Semester						
Courses	Nature of the Course	Number of Hours				Authorized Academic Department
		Cr. Hrs.	L	T	P	
Oral & Maxillofacial surgery (2)		3	2	3		Dentistry
Periodontology (4)		3	2	3		Dentistry
Pedodontics (3)		3	2	3		Dentistry
Orthodontics (4)		3	2	3		Dentistry
Preventive dentistry		3	2	3		Dentistry
Oral Medicine (4)		3	2	3		Dentistry
Comprehensive Clinical Dentistry (2)		4	2	6		Dentistry
<b>Total</b>		<b>22</b>	<b>14</b>	<b>24</b>		

## 13. Admission Requirements

1. 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 The National University admission guidelines.
2. 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.
3. Pass the aptitude test and personal interview if any.
4. Any necessary requirement for specialization, decided by the Faculty.

#### 14. Attendance Requirements and Program Completion

The same conditions of the other departments at the university.

#### 15. Graduation Requirements

1. Student attendance should not be less than 75%.
2. Student will graduate after successfully passing all program requirements.
3. Total credit hours for the program is 235 credit hours.
4. Minimum score for any student to pass any credit hours course is 60% marks.

#### 16. Required Capabilities to Implement the Program

1. Sufficient classrooms furnished with all necessary parts and equipment.

2. Laboratories .. according to the specifications of the courses. (physics, chemistry, biology labs,)
3. Computer lab.
4. Dental clinics according to the capacity of the department
5. Training labs for students(Prosthodontics lab, Phantom lab, Morphology lab, safe x-ray lab)
6. Productivity lab.
7. places to wait for patients
8. Administrative and academic staff offices

## 17. Evaluating and Improving the Program

Targeted Groups	Assessment Tool	Sample
Final year students	Focus group discussions	20%
Graduates	Questionnaires	20%
Academic Staff	Interviews	100%
Employment agencies (views)	Questionnaires	50%
External Examiners	Interviews	100%

## 18. Appendix Contains Specifications and Plans of the Program Curriculum

Annex 1: Alignment of Program Intended Learning Outcomes (PIOs) to Teaching Strategies and	Annex 7: Mapping of Department Mission to the University and	Annex 13: Survey of PIOs for Similar Accredited Programs at National and International
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Assessment Methods	Faculty Mission:	Universities
Annex 2: Grading System	Annex 8: Objectives (Educational) of the Corresponding Departments and Suggested Objectives	Annex 13: Survey of Course Names per Academic Semesters of Similar Programs
Annex 3: Program Quality Standards	Annex 9: Mapping of Department Objectives to the University and Faculty Objectives	Annex 14: Survey of Course Names per Academic Semesters of Similar Programs
Annex 4: Vision of the Corresponding Departments and Suggested Vision:	Annex 10: Alignment of Program Intended Learning Outcomes (PILOS) to Program Objectives	Annex 15: Comparison of Program Courses and Similar Programs Courses
Annex 5: Mapping of Department Vision to the University and Faculty Visions	Annex 11: Alignment of Program PILOs with Council of Accreditation and Dentistry Undergraduate Programs Standards	Program Courses specification documents
Annex 6: Mission of the Corresponding Departments and Suggested Mission	Annex 12: Graduate Attributes of the program	

**(Annex 1) Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:**

PILOs	Teaching Strategy	Assessment Methods
<b>Knowledge and Understanding</b> A1, A2, A3, A4, A5, A6	<ul style="list-style-type: none"> <li>Lectures, in which concepts, approaches and case studies are presented and explored</li> <li>Guided individual reading, including internet research</li> <li>Exercises in lectures and seminars</li> <li>Group discussions and debates designed to build knowledge of various topics.</li> </ul>	<ul style="list-style-type: none"> <li>Written examinations</li> <li>Assignments</li> <li>Presentations</li> <li>Quizzes,</li> <li>Oral assessment</li> <li>Report writing</li> </ul>



	<ul style="list-style-type: none"> <li>• Tutorials, in which particular topics are discussed in more detail</li> <li>• presentations and discussions in class</li> </ul>	
<b>Intellectual Skills</b>  <b>B1, B2, B3, B4, B5</b>	<ul style="list-style-type: none"> <li>• Classroom discussions</li> <li>• Group and pair work</li> <li>• Exercises</li> <li>• Problem solving</li> <li>• Brainstorming</li> <li>• Group projects</li> </ul>	<ul style="list-style-type: none"> <li>• Written examinations</li> <li>• Assignments</li> <li>• Presentations</li> <li>• Quizzes,</li> <li>• Oral assessment</li> <li>• Report writing/ projects/practical lab sessions</li> <li>• Coursework activities</li> </ul>
<b>Professional and practical skills</b>  <b>C1, C2, C3, C4, C5, C6, C7</b>	<ul style="list-style-type: none"> <li>• Lectures, in which these skills are demonstrated and discussed</li> <li>• Guided individual reading, including internet research.</li> <li>• Exercises in labs, seminars and multimedia presentations are designed to develop these skills</li> <li>• Tutorials, in which these skills and ways of developing them are discussed</li> <li>• Presentations, role plays and discussions in class/lab</li> <li>• Team projects</li> <li>• Lab tutorials and practical sessions</li> </ul>	<ul style="list-style-type: none"> <li>• Written examinations</li> <li>• Assignments</li> <li>• Presentations</li> <li>• Quizzes,</li> <li>• Oral assessment</li> <li>• Report writing/ projects/ practical lab sessions</li> <li>• coursework activities</li> </ul>
<b>General and Transferable Skills</b>  <b>D1, D2, D3, D4, D5, D6, D7, D8</b>	<ul style="list-style-type: none"> <li>• Classroom discussions</li> <li>• Group and pair work</li> <li>• Exercises</li> <li>• Problem solving</li> <li>• Presentations by students</li> <li>• learning in groups and team works</li> <li>• Group projects</li> <li>• Directed reading and independent study</li> </ul>	<ul style="list-style-type: none"> <li>• Written assignments</li> <li>• Quizzes</li> <li>• Coursework activities</li> <li>• Oral assessment and open presentations</li> <li>• Written Exams</li> <li>• Report writing /project</li> </ul>

#### (Annex 2) Grading System

<b>Excellent</b>	From 90% to 100% from total marks
<b>Very Good</b>	From 80% to less than 90%
<b>Good</b>	From 65% to less than 80%



<b>Pass</b>	From 60% to less than 65%
<b>Poor/Fail</b>	Less than 60%

### Annex 3: Program Quality Standards

1. Criteria for Accrediting of Yemeni Quality Council
2. National Academic Reference Standards (NARS) For Dentistry Undergraduate Program , Yemen, First Edition, Council for Accreditation & Quality Assurance, Yemen, May 2018.
3. Government Rules and Regulations:
  - Act No. 13/2005 of the Law of private universities, higher institutes and colleges, Yemen.
  - The executive regulations of Act No. 13/2005 of the Law of private universities, higher institutes and colleges, Yemen.

### Annex 4: Vision of the Corresponding Departments and Suggested Vision:

	<b>The Department</b>	<b>Vision</b>
1	<b>Faculty of dentistry Aden University</b>	Achieving leadership in dentistry to graduate qualified doctors at the regional and global levels.
2	<b>Faculty of dentistry University of Science and Technology Yemen</b>	To achieve leadership in dentistry to produce qualified doctors at the international level.
3	<b>Faculty of dentistry Jordan University of Science and Technology</b>	The <i>vision</i> of the Faculty of Dentistry at Jordan University of Science and Technology is to be a universally acknowledged institution in dental education, research and patient care.
4	<b>Faculty of October University for Modern Sciences and Arts</b>	The faculty of Dentistry, aspires to be one of the faculties in the field of medical education Community service and scientific research in art and science of dentistry.

5	<b>College of Dentistry University of Florida</b>	To be a global leader in dental education, research, patient care and service.
6	<b>School of Dentistry Amrita University</b>	Not available

#### Annex 5: Mapping of Department Vision to the University and Faculty Visions:

University Vision	Faculty of Medical Sciences Vision	Department of Dentistry Vision
Excellence and leadership in providing knowledge in the field of academic education and educational knowledge to contribute to sustainable development in society.	Excellence and advancement in providing scientific knowledge in the field of applied sciences according to accurate scientific standards that meet the needs of the learner and society.	Excellence and leadership in providing academic education with accurate scientific specifications in the field of oral and dental medicine and surgery to contribute to achieving comprehensive development.

#### Annex 6: Mission of the Corresponding Departments and Suggested Mission

	The Department	Mission
1	<b>Faculty of dentistry Aden University</b>	To achieve leadership in dentistry to produce qualified doctors at the international level
2	<b>Faculty of dentistry University of Science and Technology Yemen</b>	The College of Dentistry at the University of Science and Technology strives to be one of the most prestigious colleges at the local, regional and global levels, and works to achieve this by raising the level of performance in the academic and administrative aspects by providing appropriate environments such as education, training, implementation of quality applied research and the provision of high-end treatment services to the community, The college also seeks to graduate distinguished doctors who are able to apply the skills and experiences they have learned with high efficiency.
3	<b>Faculty of dentistry Jordan University of Science and Technology</b>	The mission of the Faculty of Dentistry is to have an internationally recognized impact on oral health education, research and dental health care by providing excellent education to the undergraduate and postgraduate students and dental

		professionals throughout their careers. Our educational environment promotes active co-operative learning in context. We have informed and will continue to inform dentistry nationally and internationally through our basic and applied research. Through these endeavors we aim to provide leadership to the health professions and the community. Our mission serves as the foundation of our commitment to providing quality dental education and service to our community.
4	<b>Faculty of dentistry October University for Modern Sciences and Arts</b>	The Faculty of Dentistry, October 6 University, is committed to preparing a graduate capable of providing comprehensive medical care and Integrated in the field of oral and dental medicine and providing therapeutic services to the surrounding community, focusing on Applied research within the framework of ethical professional practices
5	<b>College of Dentistry University of Florida</b>	Provide innovative dental education and deliver the highest degree of patient-centered care and service, while promoting discovery and the generation of knowledge through research, with strong commitments to community engagement, diversity and inclusion.
6	<b>School of Dentistry Amrita University</b>	

#### Annex 7: Mapping of Department Mission to the University and Faculty Mission:

<b>University Mission</b>	<b>Faculty of Medical Sciences Mission</b>	<b>Department of Dentistry Mission</b>
Providing distinguished academic education through advanced scientific programs and highly qualified cadres, conducting research and scientific consultations to effectively contribute to sustainable development, meeting the needs of society and the labor market of qualified cadres, creating a stimulating environment for learning, intellectual creativity, optimal employment of	The faculty of Medical Sciences seeks to prepare qualified graduates scientifically and practically in the medical and health fields, who are able to compete locally and regionally, by providing distinguished educational programs in accordance with high quality standards, to meet the needs of the local community, and the	In response to the community's need in oral and dental medicine and surgery, was established this section to build qualified cadres scientifically and practically and ethically to provide quality treatment services, high-quality community through accurate scientific decisions and a cadre of teaching distinct and in a

technology in accordance with quality systems, establishing effective local, regional and international partnerships, and commitment with professional values and ethics.	requirements of the local and regional labor market.	stimulating learning environment in accordance with modern and advanced capabilities.
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### Annex 8: Objectives (Educational) of the Corresponding Departments and Suggested Objectives

	The Department	Objectives
1	<b>Faculty of dentistry Aden University</b>	<ol style="list-style-type: none"> <li>1. Preparing and qualifying doctors with scientific knowledge and skills, scientific skills, induction, knowledge and conditions at the national and international levels in the field of dentistry.</li> <li>2. Providing quality and distinguished health service in this case and keeping pace with developments in medical and health sciences.</li> <li>3. Developing the field of research work, and supporting links with national industrial and production institutions, the results of the research and its applications.</li> <li>4. Spreading health awareness in the field of dentistry.</li> <li>5. Providing opportunities for higher education, majoring in master's and doctoral degrees.</li> <li>6. Establishing scientific centers to serve the Yemeni community.</li> <li>7. Strengthening academic relations between the University of Aden and Arab and foreign universities.</li> </ol>
2	<b>Faculty of dentistry University of Science and Technology Yemen</b>	<ul style="list-style-type: none"> <li>• Providing a high level of education and training that guarantees the qualification of dentists with high standards of competence.</li> <li>• Developing curricula and courses to ensure student participation in the self-education process and developing continuing education in a manner that meets quality and accreditation standards.</li> <li>• Providing oral and dental health services to community members through the college's dental clinics.</li> <li>• Developing the skills of faculty members to keep abreast of developments in the means and methods of teaching and learning.</li> </ul>



		<ul style="list-style-type: none"> <li>• Work to activate partnerships and develop relationships with colleges of dentistry and scientific research institutions locally, regionally and internationally.</li> <li>• Communicating with graduates and linking them to the college in order to develop their professional and research experiences</li> </ul>
3	<p><b>Faculty of dentistry Jordan University of Science and Technology</b></p>	<ol style="list-style-type: none"> <li>1. To pursue excellence in research, both basic and applied, in which the encouragement of individual endeavors is complemented by the development of productive collaborative research groups both within the Faculty and University limits and internationally.</li> <li>2. To provide an environment, accessible to all sectors of the community, for the provision of the highest quality undergraduate and postgraduate education and training in the disciplines of Dentistry, Dental assisting and dental technology in cooperation with Faculty of Applied Medical Sciences.</li> <li>3. To provide clinical expertise, consultative advice and first-class clinical services to the people of Jordan, nationally, and - in some disciplines - internationally.</li> <li>4. Foster interdisciplinary cooperation and achievements within the Faculty and with the other faculties at the University, with various teaching hospitals, research institutes, the industrial sector and international academic institutions.</li> <li>5. Generation of knowledge and understanding of the scientific basics of modern dentistry, through excellence in research-informed teaching and continuous efforts to improve quality.</li> <li>6. Provision of an academic and clinical environment for the progressive development of all the disciplines within the Faculty.</li> <li>7. The personal development of all staff members, based on equity and justice.</li> </ol>
4	<p><b>Faculty of dentistry October University for Modern Sciences and Arts</b></p>	<ol style="list-style-type: none"> <li>1- The college aims to prepare a qualified graduate to meet all the challenges in the field of dentistry and his developments with complete confidence.</li> <li>2- Preparing a capable graduate of basic biological sciences and distinguished in diagnostic and prevention sciences.</li> <li>3- Preparing dentists capable of improving oral health at the country level and at the national level regional</li> <li>4- Participation in improving the performance of dentists through continuing education programs</li> <li>5- Encouraging scientific research and agreements with prestigious universities at</li> </ol>

		the local and regional levels And the world
5	<b>College of Dentistry University of Florida</b>	<p>1- Develop and sustain a learner-centered educational environment.</p> <p>2- Provide excellent, patient-centered health care grounded in evidence.</p> <p>3- Support and advance preeminent basic, clinical, translational and population-based research.</p> <p>4- Upgrade and expand teaching, research and clinical care facilities and infrastructure.</p> <p>5- Enhance and maintain a supportive and humanistic environment.</p>
6	<b>School of Dentistry Amrita University</b>	Not available

#### Annex 9: Mapping of Department Objectives to the University and Faculty Objectives:

University Objectives	Faculty of Medical Sciences Objectives	Department of Dentistry Objectives
<p>1) Preparing highly qualified cadres in various scientific fields capable of keeping pace with the requirements of sustainable development and engaging in the labor market.</p> <p>2) Creating and developing academic programs to keep pace with modern scientific developments in line with the needs of the labor market.</p> <p>3) Encouraging scientific research and participating in conferences and scientific activities both internally and externally.</p> <p>4) Contribute to community service through studies, consultations and continuous training programs.</p> <p>5) Communication and partnership with universities and research institutions locally, regionally and internationally.</p>	<p>1. Preparing highly qualified cadres in various scientific fields capable of keeping pace with the requirements of sustainable development and engaging in the labor market</p> <p>2. Creating and developing academic programs to keep pace with modern scientific developments in line with the needs of the labor market.</p> <p>3. Encouraging scientific research and participating in conferences and scientific activities both internally and externally</p> <p>4. Contribute to community service through studies, consultations and continuous training programs.</p> <p>5. Communication and partnership</p>	<p>1. Providing a level of education and training that rehabilitates dentists with high standards and efficiency</p> <p>2. Providing curative and preventive services to members of the community through dental clinics in the college</p> <p>3. Developing courses within a systematic plan by involving students and beneficiaries in the evaluation process</p> <p>4. Develop the skills of faculty members to keep pace with developments in the means and methods of teaching, learning and assessment</p> <p>5. Continuous updating of the infrastructure of the college,</p>



	<p>with universities and research institutions locally, regionally and internationally</p>	<p>including laboratories and clinics, in order to keep pace with developments Scientific and professional in the field of dentistry</p> <p>6. Commitment to the fields of scientific research and motivating faculty members to conduct scientific research</p> <p>Publishing and organizing scientific conferences and symposia</p> <p>7. Working on activating partnerships and developing relations with dental colleges and research institutions Scientific internally and externally</p> <p>8. Connecting graduates to the department by communicating with them in order to develop their professional and research expertise</p>
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**Annex 10: Alignment of Program Intended Learning Outcomes (PILOS) to Program Objectives**

Program PILOs	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	PObj8
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								

### Annex 11: Alignment of Program PILOs with Council of Accreditation and Dentistry Undergraduate Programs Standards

Program PILOs	NARS (Yemen), ILOs for Dentistry Undergraduate Programs
A1	A.1 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	A.2 Explain the structure and function of the human body in health and disease related to the practice of dentistry.
A3	A.3 Identify the rules and ethics governing dental practices.
A4	A.4 Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.
A5	A.5 Show an understanding of the psychological, cultural and social factors that have implications on oral disease management and prevention.
A6	A.6 Explain the principles of evidence-based dentistry and its relation to scientific research.
B1	B.1 Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
B2	B.2 Apply critical thinking and evidence-based problem solving when providing patient's care.
B3	B.3 Prioritize patient's treatment needs and formulate an appropriate treatment plan.
B4	B.4 Construct preventive strategies at different levels according to the targeted individual and community needs.
B5	B.5 Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.
C1	C.1 Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and

	treatment.
<b>C2</b>	<b>C.2</b> Detect pathological conditions related to the dental practice.
<b>C3</b>	<b>C.3</b> Apply infection control and radiation protection according to international standards.
<b>C4</b>	<b>C.4</b> 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.
<b>C5</b>	<b>C.5</b> Plan when, how and where to refer a patient to a specialist based on clinical assessment.
<b>C6</b>	<b>C.6</b> Assess the risk of medical emergencies and be competent in their management within the dental practice setup.
<b>C7</b>	<b>C.7</b> Apply comprehensive clinical practices.
<b>D1</b>	<b>D.1</b> Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
<b>D2</b>	<b>D.2</b> Use advanced information and communication technologies to enrich and diversify professional experience.
<b>D3</b>	<b>D.3</b> Demonstrate leadership and teamwork skills with colleagues and other oral health team for effective delivery of oral health care.
<b>D4</b>	<b>D.4</b> Manage time, set treatment priorities and work to prescribed time limits.
<b>D5</b>	<b>D.5</b> Maintain full and accurate clinical records (manual and electronic).
<b>D6</b>	<b>D.6</b> Display appropriate attitudes both on personal and professional levels to keep an excellent regard of the profession in the society.
<b>D7</b>	<b>D.7</b> Identify patients' expectations, desires and attitudes when considering treatment planning.
<b>D8</b>	<b>D.8</b> Analyze and resolve problems and deal with uncertainty.

## Annex 12: Graduate Attributes of the program

### Upon successful completion of an undergraduate Dentistry 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- Respond to community's cultured and social characteristics and understand their implications on oral disease management and prevention.
- 4- Work in a team with dental staff to deal with dental cases (receptionists, dental assistants, dental hygienists, dental laboratory technicians and treatment coordinators).
- 5- Conduct dental practice with high regard to ethics and abide to medico-legal standards.
- 6- Demonstrate leadership qualities and capacity to function effectively within a team.
- 7- Identify their own professional limits and conduct clinical referrals when appropriate.

## Annex 13: Survey of PILOs for Similar Accredited Programs at National and International Universities

The National University	Aden University	University of Science and Technology Yemen	Jordan University of Science and Technology	October University for Modern Sciences and Arts	University of Florida	AMRITA University
<b>Knowledge and Understanding Skills</b>  A1. Describe the scientific basis of dentistry and			1. Utilize knowledge in the basic medical and dental sciences with emphasis on subjects and systems with direct relation to oral health and	<b>Knowledge and Understanding</b>  On completing		<b>A) OUTCOMES RELATED TO ACQUIRING KNOWLEDGE AND UNDERSTANDING:</b>



<p>the relevant biomedical 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</p>			<p>oral function.</p> <p>2. Communicate effectively and sensibly by spoken and written means, with patients, parents, 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>5. Demonstrate proficiency in</p>	<p>this program the graduate must be able to:</p> <p>1. Have a thorough understanding of the healthy human body and healthy oral cavity by becoming thoroughly acquainted with knowledge in basic sciences.</p> <p>2. Develop thorough understanding of the diseases that affect the human body and the disease processes that are unique to the oral cavity: their causation, prevention, diagnosis, and treatment.</p> <p>3. Develop the necessary</p>	<p>1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyse scientifically various established facts and data.</p> <p>2. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well-being of the patient.</p> <p>3. Adequate knowledge of clinical disciplines</p>
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<p>psychological, cultural and social factors that have implications on oral disease management and prevention.</p> <p>A6.Explain the principles of evidence-based dentistry and its relation to scientific research</p>			<p>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, problemsolving, critical thinking , planning, presentation and team work skills.</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</p>	<p>understanding of social, economic, psychological and ethical aspects of the profession.</p> <p>4. Develop and demonstrate sufficient knowledge for the comprehensive treatment and case management of their patients.</p> <p>5. Understand the necessary knowledge to execute infection control and asepsis.</p> <p>6. Develop the necessary knowledge to manage emergency cases</p>	<p>and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.</p> <p>4. Adequate clinical experience required for general dental practice.</p> <p>5. Adequate knowledge of the constitution, biological function and behaviour of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affects dentistry.</p>
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			<p>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, medical records and communication.</p> <p>12. Apply and evaluate research and new information to dental practice.</p>		
<p><b>Intellectual Skills</b></p> <p>B1. Incorporate theoretical basic biomedical, behavioral and dental sciences</p>				<p><b>Practical and Clinical Skills</b> On completing this program the graduate must be able to:</p> <p>1.</p>	<p><b>(B) OUTCOMES RELATED TO ACQUIRING SKILLS:</b></p> <p>1. Able to diagnose and manage various common dental problems</p>

<p>with the clinical signs and symptoms for appropriate understanding of disease and its management .</p> <p>B2. Apply critical thinking and evidence-based problem solving when providing patient's care.</p> <p>B3. Prioritize patients treatment needs and formulate An awareness that dentists should strive to provide the highest possible quality of patient care an appropriate treatment plan.</p>				<p>Demonstrate sufficient abilities for the comprehensive treatment and case completion of the patients assigned to them. The comprehensive treatment must involve all aspects of preventive procedures and general dental care, with an appropriate emphasis on restorative dental treatment.</p> <p>2. Demonstrate sufficient abilities in different local anaesthetic techniques and treatment of general restorative cases with different filling</p>		<p>encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.</p> <p>2. Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.</p> <p>3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.</p> <p>4. Promote oral health and help prevent oral diseases where possible.</p> <p>5. Competent in the control of pain and anxiety among the patients during dental treatment.</p>
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<p>B4. Construct preventive strategies at different levels according to the targeted individual and community needs.</p>				<p>materials, treatment of completely and partially edentulous cases, treatment by using simple crown and bridge prostheses, endodontic treatment, execution of all types of extractions and minor oral surgery, periodontal treatment, root planning, prophylaxis and simple periodontal surgery.</p> <p>3. Diagnose the common oral lesions and the need for orthodontic care and fabricate simple orthodontic appliances.</p> <p>4. Be able to diagnose and refer to specialists</p>		
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				<p>cases that need implants, specialised orthodontic treatment and/or maxillofacial surgery or prostheses.</p> <p>5. Be able to perform primary dental care for children.</p> <p>6. Manage dental and medical emergencies</p> <p>7. Apply current infection control guidelines.</p> <p>8. Be able to fabricate most types of prostheses in the lab, process acrylic resin, correct technical errors and cast different types of metals.</p> <p>9. Control patient</p>		
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				anxiety and prescribe the appropriate drugs.		
<p><b>Professional and Practical Skills</b></p> <p>C1. Obtain and record a comprehensive history, perform an appropriate physical examination, interpret the findings and organize appropriate further investigations to reach a correct diagnosis and treatment.</p> <p>C2. Detect pathological conditions related to the dental practice.</p> <p>C3. Apply infection control and radiation protection according to</p>				<p><b>Intellectual Skills</b></p> <p>On completing this program the graduate must be able to:</p> <ol style="list-style-type: none"> <li>1. Seek out, analyse and integrate diagnostic data to solve clinical problems.</li> <li>2. Develop the necessary interpersonal skills to interact at an appropriate professional level with their patients.</li> <li>3. Demonstrate</li> </ol>		<p><b>(C) OUTCOMES RELATED TO ACQUIRING THE RIGHT ATTITUDE:</b></p> <ol style="list-style-type: none"> <li>1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.</li> <li>2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.</li> <li>3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.</li> <li>4. Willingness to participate in the CPED</li> </ol>



<p>international standards.</p> <p>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.</p> <p>C5.Plan when, how and where to refer a patient to a specialist based on clinical assessment.</p> <p>C6.Assess the risk of medical emergencies and be competent in their management within the dental practice</p>				<p>have an ability to prepare appropriate diagnosis and design treatment plans, to present the diagnosis and treatment options to their patients, to manage the dental care of assigned patients.</p> <p>4. Develop the necessary skills to interact with different specialties and departments.</p> <p>5. Develop the necessary skills in perceiving colour and aesthetics</p> <p>6. Estimate the effects of medications taken by</p>	<p>Programmes to update the knowledge and professional skill from time to time.</p> <p>5. To help and participate in the implementation of the national oral health policy.</p>
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<p>setup. C7. Apply comprehensive clinical practices and evidence-based treatment</p>				<p>the patient on dental management.</p>		
<p><b>General and Transferable Skills</b> D.1 Commit to continuous education, self-development and long-life learning to remain updated with advances in dental practice. D.2 Use advanced information and communication technologies to enrich and diversify professional experience. D.3 Demonstrate leadership and</p>				<p>On completing this program the graduate must be able to:</p> <ol style="list-style-type: none"> <li>1. Appreciate using sources of continuing education and accurate information technology in providing contemporary dental care.</li> <li>2. Develop a team approach to conduct multidisciplinary</li> </ol>		

<p>teamwork skills with colleagues and other oral health team for effective delivery of oral health care.</p> <p>D.4 Manage time, set treatment priorities and work to prescribed time limits</p> <p>D.5 Maintain full and accurate clinical records (manual and electronic).</p> <p>D.6 Display appropriate attitudes both on personal and professional levels to keep an excellent regard of the profession in the society.</p> <p>D.7 Identify patients' expectations</p>				<p>treatment plan for the assigned patients in a scientific and ethical approach.</p> <p>3. Critically read, appraise and review the dental literature.</p> <p>4. Perform critical thinking and problem solving in dental education.</p> <p>5. Be fully aware of the necessity of basic concepts of quality assurance.</p> <p>6. Develop analytical and presentational skills through the preparation , delivery and participation in</p>		
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, desires and attitudes when considering treatment planning. D.8 Analyze and resolve problems and deal with uncertainty				assessed seminars.		
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#### Annex 14: Survey of Course Names per Academic Semesters of Similar Programs

University	The National University	Aden University	University of Science and Technology Yemen	Jordan University of Science and Technology	October University for Modern Sciences and Arts	University of Florida	AMRITA University
No of Courses	86	59	62	101	87	--	31
Total Cr. Hrs.	235	234	199	213	211	--	--
Total Years	5 Years	5 Years	5 Years	5 Years	5 year	4 Years	4 Years
<b>Frist year / 1<sup>st</sup> Semester</b>							
No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name

1	Arabic language 1	الأحياء	Islamic culture	Social Responsibility	General Chemistry	Gross Anatomy	General Human Anatomy Including Embryology Osteology and Histology
2	Islamic culture	الكيمياء	English language 1	Student Culture & University Behavior	Biophysics	Biochemistry , Molecular and Cellular Biology	General Human Physiology
3	English language 1	الفيزياء	Communications skills	General Biology	Biology	Development Biology and Psychology Issue over the lifespan 1	Biochemistry
4	Arabic Israeli conflict	اللغة الإنجليزية	Computer Skills	General Biology Lab	Genetics	Foundations of professional ism	Dental Anatomy Embryology and Oral Histology
5	Computer Skills	الصحة العامة	General Chemistry	General Chemistry	Dental Anatomy I	Interdisciplinary service learning I	Dental Materials (Part of Dental Materials Course of Second Year)
6	General Chemistry	علم تشريح الأسنان	General Biology	General Chemistry Lab	English Language I	Dental Anatomy and Stomatognathics	Pre clinical Prosthodontic & s Crown & Bridge (Part of Prosthodontic Course of Final



							Year )
7	General Biology		Tooth Morphology	General Physics	Computer science I		
8	Medical Physics			English 99			
9	Dental Morphology 1						
<b>Frist year / 2<sup>nd</sup> Semester</b>							
1	Arabic language 2	التشريح العام لجسم الإنسان	Skills of holy Quran Recitation & Tajweed	Organic Chemistry	Organic Chemistry	Infectious Diseases	
2	English language 2	علم الأنسجة العام	English language 2	General Anatomy & Embryology	Dental Materials I	Histology	
3	Nationality culture	علم الأجنة العام	Arabic language	General Anatomy & Embryology Lab	General Histology	Physiology	
4	Communications skills	الكيمياء الحيوية (الجزء الأول)	Organic chemistry	General Histology	Microbiology	Oral Health Management and Psychology Issues over the lifespan	
5	Medical terminology	علم تشريح الأسنان	Biophysics	Human Physiology	Dental anatomy II	Professionalism in Patient Care and Practice Management	
6	General Anatomy		Properties of Dental Biomaterial	Human Physiology Lab	English Language II	Cariology and Preventive Dentistry	
7	Organic chemistry		Critical Thinking	Computer Skills	Computer science II	Preclinical Operative Dentistry I/Biomaterial	
8	Dental Morphology 2		Tooth Morphology	ARABIC LANGUAGE			
9	General histology & embryology						

**Summer semester**

1				University Elective			
2				Biochemistry			
3				Biochemistry Lab			
4				Military Sciences			

**Second year / 1<sup>st</sup> Semester**

1	Biostatistics	تشريح الرأس والرقبة	General histology & embryology	Molecular Genetics	Dental Materials II	Host Defense	General & Dental Pharmacology and therapeutics
2	Microbiology and Immunology	الكيمياء الحيوية (الجزء الثاني)	Dental Materials	Head and Neck Anatomy	Oral Biology I	General Pathology	General Pathology
3	Anatomy (Head and Neck)	علم وظائف الأعضاء (الجزء الأول)	Leaderships Skills Development	Head and Neck Anatomy Lab	General Anatomy I	Introduction to evidence-based Dental Practice	Microbiology
4	Physiology (1)	مواد الأسنان	Medical Ethics	General Pathology	Physiology I	Professionalism in Patient Care and Practice Management I	Dental Materials
5	Biochemistry (1)	طب صناعة الأسنان	Research Methodology	General Microbiology	Biochemistry	Interdisciplinary service learning II	Oral Pathology and Oral Microbiology (Part of Third Year Oral Pathology)
6	Oral Histology (1)		Oral Histology	Dental Anatomy and Occlusion	Medical ethics and law	Preclinical Operative Dentistry II	Pre Clinical Prosthodontic & s

							Crown & Bridge (Part of Final year Prosthodontics)
7	Dental materials (1)		Biochemistry	General Skills	Financial Planning	Fundamentals of Occlusion	Pre Clinical Conservative Dentistry (Part of Final Year Conservative Dentistry)
8	Medical Ethics		General & Head & Neck Anatomy		Instructor CPR	Fundamentals of Oral & Maxillofacial Radiology	
9			Human Physiology				
10			Removable Prosthodontics (1)				
<b>Scod year / 2<sup>nd</sup> Semester</b>							
1	General pathology	علم وظائف الأعضاء (الجزء الثاني)	Operative dentistry (1)	Immunology	Dental Materials III	Science and Clinical Management of Dental Pain	
2	Physiology (2)	علم الأحياء الدقيقة والطفيليات	Biostatistics	General Pharmacology	Oral Biology II	Oral pathology	
3	Biochemistry (2)	علم أنسجة الفم	Medical English	Clinical Psychology	General Anatomy II	Professionalism in Patient Care and Practice Management I	
4	Oral Histology (2)	مقدمة في طب الأسنان التحفظي	Oral Histology	Systemic Pathology	Physiology II	Interdisciplinary service learning II	
5	Dental materials (2)		Biochemistry	Oral Physiology	General Pathology	Introduction to Clinical Diagnosis and	

						Treatment Planning	
6	Pre-clinical Operative dentistry (1)		General & Head & Neck Anatomy	Oral Histology and Embryology	Statistics	Preclinical Operative Dentistry III	
7	Pre-clinical Removable Prosthodontics (1)		Human Physiology	Fundamentals of Dental Caries	Psychology and Sociology	Preclinical Fixed Prosthodontics I	
8	Genetic		Removable Prosthodontics (1)	Oral Radiology I	Introduction to Dentistry	Periodontic Treatment Planning and Disease Control	
9	Patient Assessment & First Aid					Principles of Endodontics	
<b>Summer semester</b>							
1				General Internal Medicine		Public Health	
2				General Surgery and Anaesthesia		Oral Medicine and Pharmacotherapeutics	
3				Basic Emergency Care		Principles of PHarmacology	
4				Entrepreneurship And Innovation		Introduction to OMFS 1	
5				University Elective		Professionalism in Patient Care and Practice Management I	
6						Interdisciplinary service learning II	
7						Pain and Anxiety Control in Dental Patients	
8						Prosthodontic Treatment of Edentulous Patient	

9						Basic Endodontic Therapy	
10						Preclinical Fixed prosthodontics II	
<b>Third year / 1<sup>st</sup> Semester</b>							
1	Public health	علم الأمراض العام	General pathology	Basic Infection Control Measures	Conservative Dentistry I	Orofacial Pain	General Medicine
2	Pharmacology	علم الأدوية (الجزء الأول)	Oral & Maxillofacial Radiology	Dental Ethics and Jurisprudence	Fixed Prosthodontics I	Professionalism in Patient Care and Practice Management II	General Surgery
3	Oral pathology (1)	الطب الباطني العام	Oral Diagnosis	Dental Therapeutics	Removable Prosthodontics I	Interdisciplinary service learning III	Oral Pathology and Oral Microbiology
4	Oral Diagnosis and Radiology (1)	طب صناعة الأسنان	Local Anesthesia & Exodontia	Dental Materials I	Endodontics I	Orthodontics for the General Practitioner	Oral Medicine and Radiology
5	Pre-clinical Operative Dentistry (2)	طب الأسنان التحفظي	Operative dentistry (1)	Operative Dentistry	Oral Pathology I	Fundamentals of Pediatric Dentistry	Paediatric and Preventive Dentistry
6	Pre-clinical Removable Prosthodontics (2)	جراحة الفم والأسنان	Endodontics (1)	Oral Radiology II	Pharmacology	Removal Partial Prosthodontics: principles and Techniques	Orthodontics & Dentofacial Orthopaedics
7	General Medicine	علم أشعة الفم	Removable Prosthodontics (2)	Oral Pathology I		Clinical Operative Dentistry 1	Periodontology
8	Medically compromised patient		Fixed Prosthodontics (1)	Removable Prosthodontics I		Comprehensive Periodontal Treatment 1	Oral & Maxillofacial Surgery.
9	Pre-clinical		Oral	Dental Anesthesia		Oral Diagnosis/M	Conservative



	Endo (1)		pathology	and Sedation		edicine & Treatment Planning I	& Dentistry  Endodontics.
10	Pre-clinical Fixed Prosthodontics (1)		Microbiology and Immunology			Clinical Oral Surgery 1	Prosthodontic s and Crown &  Bridge
11						Clinical Radiology 1: Radiographic Technique	
<b>Third year / 2<sup>nd</sup> Semester</b>							
1	General Surgery	علم أمراض الفم واللثة	Pharmacology	Paediatric Dentistry I	Conservative Dentistry II	Introduction to OMFS, Part II	
2	Oral pathology (2)	علم الأدوية (الجزء الثاني)	Oral & Maxillofacial Radiology	Dental Materials II	Fixed Prosthodontic s II	Professionalism in Patient Care and Practice Management II	
3	Oral Diagnosis and Radiology (2)	الطب الباطني العام	Oral Diagnosis	Endodontics	Removable Prosthodontic s II	Interdisciplin ary service learning III	
4	Pre-clinical Operative Dentistry (3)	طب الأسنان التحفظي	Local Anesthesia & Exodontia	Oral Diagnosis	Endodontics II	Periodontal Surgery For the General Practitioner	
5	Pre-clinical Removable Prosthodontic s (3)	طب صناعة الأسنان	Operative dentistry (2)	Preclinical Oral Diagnosis and Oral Radiology	Oral Pathology II	Over View Of Implant Dentistry	
6	Pre-clinical Fixed Prosthodontic s (2)	جراحة الفم والأسنان	Endodontics (1)	Oral Pathology II	Dental Radiology	Clinical Operative Dentistry 2	
7	Pre-clinical Endo (2)	علم النفس الطبي (علوم سلوكية)	Removable Prosthodontics (2)	Removable Prosthodontics II		Comperhensi ve Periodontal Treatment 1	
8	Psychology		Fixed Prosthodontics	Periodontolog y I		Clinical Oral Surgery 1	

			(1)				
9	Dental Anesthesia and exodontia		Oral pathology	Biostatistics		Clinical Radiology 1: Radiographic Technique	
10			Microbiology and Immunology			Clinical Endodontics 1	
11						Clinical Pediatric Dentistry 1	
12						Oral Diagnosis/Medicine & Treatment Planning I	
13						Clinical Orthodontics 3	
14						Hospital Dentistry	
Summer semester							
1				University Elective		Evidence-Based Endodontics	
2				Communication skills		Overview of Advanced Oral and Maxillofacial Surgery	
3				Introduction to Clinical Dentistry		Dental Care For the Geriatric Patient	
4						Advanced Oral Medicine and Clinical Pharmacology	
5						Professionalism in Patient Care and Practice Management III	
6						Interdisciplinary service learning III	
7						Clinical use of Dental Materials	
8						Clinical Operative Dentistry 3	

9						Comperhensive Periodontal Treatment 3	
10						Advaced Radiologic Interpretation	
<b>Fourth year / 1<sup>st</sup> Semester</b>							
1	Clinical Removable Prosthodontics (1)	الجراحة العامة	General Internal Medicine	Oral Epidemiology	Conservative Dentistry III	Periodontics in General Practice	Oral Medicine and Radiology
2	Oral surgery (1)	طب أمراض الفم	General & ENT Surgery	Paediatric Dentistry II	Fixed Prosthodontics III	Comperhensive Periodontal Treatment 4	Paediatric and Preventive Dentistry
3	Clinical Operative Dentistry (1)	الأمراض الجلدية والتناسلية	Oral surgery Technique	Conservative Dentistry I	Removable Prosthodontics III	Professionalism in Patient Care and Practice Management III	Orthodontics & Dentofacial Orthopaedics
4	Oral Medicine (1)	طب الأسنان التحفظي	Pedodontics (1)	Clinical Oral Diagnosis/Clinical Oral Radiology I	Endodontics III	Interdisciplinary service learning IV	Periodontology
5	Periodontology (1)	صناعة الأسنان	Periodontology (1)	Removable Prosthodontics III	Orthodontics I	Clinical Operative Dentistry 3	Oral & Maxillofacial Surgery.
6	Clinical Endodontic (1)	جراحة الوجه والفكين	Operative Dentistry (3)	Fixed Prosthodontics	Oral Medicine, Diagnosis Periodontology I	Clinical Endodontics 3	Conservative & Dentistry Endodontics
7	Orthodontics (1)	الأخلاق الطبية	Endodontics (2)	Periodontology II	Oral Surgery & Anesthesia I	Oral Diagnosis/Medicine & Treatment Planning 2	Prosthodontics and Crown & Bridge
8	Clinical Fixed Prosthodontics (1)		Removable Prosthodontics (3)	Oral Surgery I	General Surgery	Clinical Prosthodontics 3	Public Health Dentistry
9			Fixed Prosthodontics	Orthodontics I		Hospital Dentistry	

			(2)				
10			Orthodontics (1)			Clinical Pediatric Dentistry 2	
11			Oral Medicine			Clinical Oral Surgery 2	
12						Clinical Radiology 1: Radiographic Technique	
13						Community Dentistry	
14						Clinical Oncology and Oral Pathology	
<b>Fourth year / 2<sup>nd</sup> Semester</b>							
1	Clinical Removable Prosthodontics (2)	الجراحة العامة	Medically compromised patient in Dentistry	Preventive Dentistry	Conservative Dentistry IV	Comprehensive Periodontal Treatment 5	
2	Oral surgery (2)	أمراض الأنف والأذن والحنجرة	Oral surgery Technique	Paediatric Dentistry III	Fixed Prosthodontics IV	Professionalism in Patient Care and Practice Management IV	
3	Clinical Operative Dentistry (2)	طب العيون	Pedodontics (1)	Conservative Dentistry II	Removable Prosthodontics IV	Interdisciplinary service learning IV	
4	Oral Medicine (2)	طب أسنان الأطفال	Periodontology (1)	Clinical Oral Diagnosis/ Clinical Oral Radiology II	Endodontics IV	Clinical Operative Dentistry 5	
5	Periodontology (2)	طب تقويم الأسنان	Operative Dentistry (3)	Oral Medicine I	Oral Medicine, & Periodontology Diagnosis II	Clinical Endodontics 4	
6	Clinical Endodontic (2)	طب الأسنان التحفظي	Endodontics (2)	Removable Prosthodontics IV	Oral Surgery & Anesthesia II	Oral Diagnosis/Medicine & Treatment Planning 3	
7	Orthodontics (2)	طب صناعة الأسنان	Removable Prosthodontics (3)	Pre-clinical Fixed Prosthodontics I	Orthodontics II	Clinical Prosthodontics 4	

8	Clinical Fixed Prosthodontics (2)		Fixed Prosthodontics (2)	Periodontology III	General Medicine	Hospital Dentistry	
9	Pedodontics (1)		Orthodontics (1)	Oral Surgery II		Clinical Pediatric Dentistry 3	
10			Oral Medicine	Orthodontics II		Clinical Oral Surgery 2	
11						Clinical Radiology 2: Radiographic Technique	
12						Community Dentistry II	
13						Clinical Oncology and Oral Pathology	
<b>Summer semester</b>							
1				Comprehensive Dental Care I		Advanced Topics in Prosthodontics	
2						Clinical Prosthodontics 5	
3						Comprehensive Periodontal Treatment 6	
4						Clinical Operative Dentistry 6	
5						Clinical Endodontics 5	
6						Clinical Pediatric Dentistry 4	
7						Community Dentistry III	
<b>Fifth year / 1<sup>st</sup> Semester</b>							
1	Oral & Maxillofacial Surgery (1)	طب الأسنان الوقائي والصحة العامة	Dental Therapeutics	Research Project	Conservative Dentistry V		
2	Periodontology (3)	طب الأسنان الشرعي	Maxillofacial Prosthesis	Comprehensive Dental care II	Fixed Prosthodontics V		



3	Pedodontics (2)	جراحة الوجه والفكين	Basic Life Support	Paediatric Dentistry IV	Removable Prosthodontic s V		
4	Orthodontics (3)	طب تقويم الأسنان	Surgical Procedures in Implant Dentistry	Conservative Dentistry III	Endodontics V		
5	Preventive dentistry (1)	طب الأسنان التحفظي	Dental Public Health & Community Dentistry	Oral Medicine II	Pedodontics I		
6	Oral Medicine (3)	طب صناعة الأسنان	Orthodontics (2)	Prosthodontics I	Oral Medicine & Periodontolog y and radiology III		
7	Comprehensiv e Clinical Dentistry (1)	تطبيق عملي شامل	Pedodontics (2)	Periodontolog y IV	Oral Surgery & Anesthesia III		
8	Research Methodology		Periodontolog y (2)	Oral and Maxillofacial Surgery I			
9			Oral & Maxillofacial Surgery	Orthodontics III			
10			Comprehensiv e clinical Practice				
<b>Fifth year / 2<sup>nd</sup> Semester</b>							
1	Oral & Maxillofacial Surgery (2)	تطبيق عملي شامل	Occlusion & TMJ Disorders	Dental Practice Management	Conservative Dentistry VI		
2	Periodontolog y (4)	طب الأسنان التحفظي	Prodhetic Rehabilitation in Implant Dentistry	Oral Implantology	fixed Prosthodontic s VI		
3	Pedodontics	طب صناعة	Dental Public Health &	Comprehensiv e Dental care	Removable Prosthodontic		

	(3)	الأسنان	Community Dentistry	III	s VI		
4	Orthodontics (4)	جراحة الوجه والفكين	Orthodontics (2)	Community Dentistry	Endodontics VI		
5	Preventive dentistry		Pedodontics (2)	Paediatric Dentistry V	Pedodontics II		
6	Oral Medicine (4)		Periodontology (2)	Aesthetic Dentistry	Oral Medicine & Periodontology IV		
7	Comprehensive Clinical Dentistry (2)		Oral & Maxillofacial Surgery	Conservative Dentistry IV	Oral Surgery & Anesthesia IV		
8			Comprehensive clinical Practice	Oral Medicine III			
9				Prosthodontics II			
10				Periodontology V			
11				Oral and Maxillofacial Surgery II			
12				Orthodontics IV			



# الجامعة الوطنية

## NU

















































The National University- Sana'a

Faculty of Medical Science Department of Dentistry

College of dentistry

Department of Oral and Dental Surgery



الجمهورية اليمنية  
وزارة التعليم العالي والبحث العلمي  
الجامعة الوطنية - صنعاء  
كلية طب الأسنان  
قسم طب وجراحة الفم والأسنان

**The National University**  
**Faculty of Medical of Medical Science**  
**Department of Dentistry**  
**Bachelor of Dental Surgery**  
**(BDS) program**

**Preparation Committee:**

5. Prof. Dr. Ahmed Obeyah
6. Associated Prof. Dr. Ibrehim Al-Shami
7. Assistant Prof. Dr. Sam Da'er
8. Assistant Prof. Dr. Abdul Fatah Salam