The National University-Sana'a

Faculty of Medical ScienceDepartment of Dentistry

College of dentistry

Department of Oral and Dental Surgery



الجمهورية المنسية وزارة التعليم العالمي والبحث العلمي الجامعة الوطنية - صنعاء كثية طب الأسنان قسم طب وجراحة القم والاسنان



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



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Academic Program Specification Form

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

Name: Dentistry.

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



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

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



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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)



No	Country	University Name	Faculty Name	Department Name	Program Title	Department URL
1	Yemen	Aden University	Faculty of dentistry	رية الغر	B.Sc. of (DMD)	http://www.euni.de/too ls/jobpopup.php?lang= en&option=showJobs &jobid=13818&jobtyp =8&university=Univer sity+of+Aden&country =YE&sid=5921
2	Yemen	University of Scientific and Technology Yemen	Faculty of dentistry		B.Sc. of (DMD)	https://ust.edu.ye/en/ab out-university/
3	Jordan	Jordan University of Science and Technology	Faculty of dentistry	NAL UNIVERSITY	Bachelor degree in Dental Surgery (BDS)	https://www.just.edu.jo /FacultiesandDepartme nts/FacultyofDentistry/ Pages/Default.aspx
4	Egypt	October University for Modern Sciences and Arts	Faculty of Dentistry	عة ا ا ا ا	Bachelor in Dental Surgery (BDS)	
5	United States of America	University of Florida	College of Dentistry		D.M.D	https://catalog.ufl.edu/ UGRD/academic- programs/dentistry/
6	India	Amrita University	School of Dentistry		BACHELO R OF DENTAL SURGERY (B.DEN.SU R)	https://www.amrita.ed u/school/dentistry



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	5.	Pro	gram	ı Mis	sion
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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:



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- 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.



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- 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

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7	Organic chemistry	ı	I																		I	I	I				
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9	General histology& embryology	1	I					I					I								ı				I		



الجمهورية البعنسية وزارة التعليم والبحث العلمي وزارة التعليم العالمي والبحث العلمي الجامعة الوطنية صنعاء كلية طب وجراحة القم والأستان قسم طب الأستان

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6	Oral Histology (1)	-	I					-					I								I				I		
7	Dental materials (1)	-					ı					I	I							I			I			I	
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3	Biochemistry (2)	I	I		I																_	I	I				



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3	Oral pathology (1)	I	I					I		I	I		I	I			I	I		I	I		I				
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8	Medically compromised patient	I	I	I			I	I				I		I		I						Ι	I				



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

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5	Pre-clinical Removable Prosthodon tics (3)			Е	Е	E	E	Е	Е	Е	Е	Е	E	E	E	Е	Е			Ι	I	Ι	Ι	I	Ι	I	I
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7	Pre-clinical Endo (2)	E	E		E		E	E		E		E		E						I	I		I				
8	Psychology					E				I			1								I				I	I	
9	Dental Anesthesia and exodontia	I	I	I	I		I	I	I	I		I	I		I		ı	I	I	I	I		I				



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2	Oral surgery (2)	Е	E	E	E			E	E	E	E	E	E	E	E	E	E	E		I		I					
3	Clinical Operative Dentistry (2)			E	E	Е	Е	E	E	E	E	E	E	E	E	E	E			I	I	I	I	I	I	I	I
4	Oral Medicine (2)			E	E	Е	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	ı
6	Clinical Endodontic (2)			E	E	E	E	E	E	E	E	E	E	E	Е	E	E			I	I	I	I	I	I	I	I
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8	Clinical Fixed Prosthodontics (2)			E	E	E	Е	E	E	E	E	Е	Е	E	Е	E	E			I	I	I	I	I	I	I	I
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2	Periodontology (3)			E	E	E	E	E	E	E	E	Е	E	E	Е	Е	Е	E	Е	E	Е	E	E	E	E	Е	E
3	Pedodontics (2)	E			E		E	E	7	E	E	Е	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	Е	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

			4000	Section				300	S	ub-	Pro	ogr	am	Le	arı	nin	g O	utc	om	ies		300					
No.	Courses										Fift	th Y	ear	/ Sc	econ	nd S	em	este	r								
).		a	a	a	a	a	a	b	b	b	b	b	С	С	С	С	С	С	С	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	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	E	Е	Е	Е	Е	E	E	E	E
2	Periodontology (4)			E	E	E	E	E	E	E	E	E	E	E	E	E	Е	E	E	Е	E	E	E	E	E	E	E
3	Pedodontics (3)				E	E	E	E	E	Е	E	E	E	E	E	E	E		E		I	I	I	Ι	I	Ι	



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4	Orthodontics (4)	_	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		Ι		I	I	I	I		Ι	I	I		I	I				I	I	I	Ι	Ι	I	I	I
6	Oral Medicine (4)		E	Е	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 (2)		E	E	E	E	E	E	E	E	E	E	E	E	E	Е	E	E	E	E	E	E	E	E	E	E

	11020
9. Teaching Stra	ategies
Lectures	These are interactive lectures conducted in the class, in which concepts, approaches and case studies are presented and explored. In addition to showing students what they need to know, the teacher incorporates a variety of formats including lectures and multimedia presentations. Lectures are provided on a weekly basis.
Lecture: Discussion	A short lecture/ address followed by Formal or informal discourse on topics usually primed by leading and/or open-ended questions.
Seminar/ presentation	In each course, a project will be initiated to cover a variety of tasks. The teacher needs to set advance work for a selected number of students, and then have the selected students present their work to the whole group, for discussion, criticism and suggestions for improvement. Seminar sessions and presentations provide an opportunity to address questions, queries and problems.
Group discussions and activities	Students are engaged in group discussions of specific topics and gain immediate feedback and support from tutors. Students are exposed to and use many skills throughout this strategy such as: communication, problem-solving skills, cognition, and critical thinking. Teacher will be responsible for the design of the group experience, such as choosing topics and assigning tasks to individual students.
Exercises	Students are given special tasks and activities during the class.
Laboratory practice	Students doing experiments in labs individually or in small groups
Cooperative learning	Students are encouraged to undertake independent study both to supplement and consolidate what is being learned. Self-directed learning, small group teaching and discussions require students to "talk science" and encourage them to teach each other.
Tutorials	Tutorial classes are also provided each week to create a stimulating environment for students to work through examples and case studies. Tutorials include worksheets of carefully-designed questions that require students to think about challenging subjects. They are designed to be used after a brief lecture in which students work in pairs or groups. Teachers offer their students a variety of tutorials where students are allowed to choose the topics that interest them and begin their individual line of inquiry.



Case study	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
Clinical	Observations made or work carried on in a natural setting. Used only in some courses.
Problem solving	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.
Brainstorming	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 Str	rategies
Assessment Methods	Its descr <mark>iption, in which level is used</mark> and its percentage
Written tests (mid, 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.
Oral exams	For all courses except for project
Report/Project/ Practical Lab Sessions	For all courses except for project
Coursework Activities	The entire assessment of coursework activities during the teaching period of each course (which includes group and individual work, tests and presentations, etc.)
Home work	For all courses except for project

11. System of Study

1. Number of Credit Hours Required to Complete the Program



	Number o	of Credit H	ours
	Mandatory	Optional	Total
University Requirements	18	///	18
Faculty Requirements	18	///	18
Specialization requirements	199	///	199
Total	235		235

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

Requirements	Number of Courses	Number of Hours	Rat	tio
2004.000000		7 (4.1	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%
Total	86	235	100%	100%

12. Study Plan								
Frist Semester								
Courses	Nature of the Course	Number of Hours				Authorized Academic Department		
		Cr. Hrs.	L	Т	Р			

..



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

	Second Semester								
Courses	Nature of the Course			Authorized Academic Department					
		Cr. Hrs.	L	Т	Р				
Arabic language 2	University Requirement	2	2						
English language 2	University Requirement	2	2						
Nationality culture	University Requirement	2	2						

9.8



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	Lill -	3	2	3	Dentistry
General histology& embryology	9,	3	2	2	Dentistry
Total		22	18	9	

Third Semester

Courses	Nature of the Course			Authorized Academic Department		
	THENA	Cr. Hrs.	ivestin)	Т	Р	
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
Total		22	17		10	

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	Fourth Semester								
Courses	Nature of the Course		Number of Hours						
		Cr. Hrs.	L	Т	Р	Dentistry			
General pathology	. \	3	2		2	Dentistry			
Physiology (2)	O Pills	3	2		2	Dentistry			
Biochemistry (2)	/ 0	3	2		2	Dentistry			
Oral Histology (2)		3	2		2	Dentistry			
Dental materials (2)	1.0	3	2		2	Dentistry			
Pre-clinical Operative dentistry (1)	11.3	3	2		3	Dentistry			
Pre-clinical Removable Prosthodontics (1)	1	3	2		3	Dentistry			
Genetic	THE NA	2	2			Dentistry			
Patient Assessment & First Aid	Faculty Requirement	1			2				
Total		24	16		18				

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



Total		26	20	14	
Pre-clinical Fixed Prosthodontics (1)	38	3	2	3	Dentistry
Pre-clinical Endo (1)	19%	3	2	3	Dentistry
Medically compromised patient	91	1	1		Dentistry
General Medicine	die	2	2		Dentistry
Pre-clinical Removable Prosthodontics (2)		3	2	2	Dentistry
Pre-clinical Operative Dentistry (2)		3	2	2	Dentistry
Oral Diagnosis and Radiology (1)		3	2	2	Dentistry
Oral pathology (1)		3	2	2	Dentistry

	Sixth Semester								
Courses	Nature of the Course		Authorized Academic Department						
		Cr. Hrs.	46	Т	Р				
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
Total	23	17	16	

Seventh Semester

Courses	Nature of the Course			Authorized Academic Department		
	600	Cr. Hrs.	1	Т	Р	
Clinical Removable Prosthodontics (1)	36	3	2	3		Dentistry
Oral surgery (1)	-1111	3	2	3		Dentistry
Clinical Operative Dentistry (1)	1111	3	2	3		Dentistry
Oral Medicine (1)		3	2	3		Dentistry
Periodontology (1)	THE NA	3	2	3		Dentistry
Clinical Endodontic (1)		3	2	3		Dentistry
Orthodontics (1)		3	2		2	Dentistry
Clinical Fixed Prosthodontics (1)		3	2	3	6	Dentistry
Total		24	16	21	2	

Eight Semester								
Courses		Authorized Academic Department						
		Cr. Hrs.	L	Т	Р			
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)	in in	3	2	3		Dentistry
Orthodontics (2)	9	3	2		2	Dentistry
Clinical Fixed Prosthodontics (2)	157	3	2	3		Dentistry
Pedodontics (1)	4 6	2	2			Dentistry
Total		26	18	21	2	

Ninth Semester						
Courses	Nature of the Course	Number of Hours			Authorized Academic Department	
		Cr. Hrs.	L	Т	Р	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		
Total		24	16	24	

Tenth Semester						
Courses	Nature of the Course	Number of Hours			Authorized Academic Department	
	36	Cr. Hrs.	T/I	Т	P	
Oral & Maxillofacial surgery (2)		3	2	3		Dentistry
Periodontology (4)	16	3	2	3		Dentistry
Pedodontics (3)		3	2	3		Dentistry
Orthodontics (4)	Name and	3	2	3		Dentistry
Preventive dentistry		3	2	3		Dentistry
Oral Medicine (4)		3	2	3		Dentistry
Comprehensive Clinical Dentistry (2)	7	4	2	6	6	Dentistry
Total		22	14	24		

13. Admission Requirements



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- 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.



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- 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 13: Survey of PILOs for			
Intended Learning Outcomes	Mission to the University and	Similar Accredited Programs at			
(PILOs) to Teaching Strategies and		National and International			



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	
Knowledge and Understanding	 Lectures, in which concepts, approaches and case studies are presented and explored Guided individual reading, including internet research 	Written examinationsAssignmentsPresentations	
A1, A2, A3, A4, A5, A6	 Exercises in lectures and seminars Group discussions and debates designed to build knowledge of various topics. 	 Quizzes, Oral assessment Report writing	



Intellectual Skills B1, B2, B3, B4, B5	 Tutorials, in which particular topics are discussed in more detail presentations and discussions in class Classroom discussions Group and pair work Exercises Problem solving Brainstorming Group projects 	 Written examinations Assignments Presentations Quizzes, Oral assessment Report writing/projects/practical labsessions Coursework activities
Professional and practical skills C1, C2, C3, C4, C5, C6, C7	 Lectures, in which these skills are demonstrated and discussed Guided individual reading, including internet research. Exercises in labs, seminars and multimedia presentations are designed to develop these skills Tutorials, in which these skills and ways of developing them are discussed Presentations, role plays and discussions in class/lab Team projects Lab tutorials and practical sessions 	 Written examinations Assignments Presentations Quizzes, Oral assessment Report writing/ projects/ practical lab sessions coursework activities
General and Transferable Skills D1, D2, D3, D4, D5, D6, D7, D8	 Classroom discussions Group and pair work Exercises Problem solving Presentations by students learning in groups and team works 	 Written assignments Quizzes Coursework activities Oral assessment and open presentations
0.0	 Group projects Directed reading and independent study	Written ExamsReport writing /project

(Annex 2) Grading System				
Excellent	From 90% to 100% from total marks			
Very Good	From 80% to less than 90%			
Good	From 65% to less than 80%			



Pass	From 60% to less than 65%
Poor/Fail	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.

An	Annex 4: Vision of the Corresponding Departments and Suggested Vision:					
	The Department	Vision				
1	Faculty of dentistry Aden University	Achieving leadership in dentistry to graduate qualified doctors at the regional and global levels.				
2	Faculty of dentistry University of Science and Technology Yemen	To achieve leadership in dentistry to produce qualified doctors at the international level.				
3	Faculty of dentistry Jordan University of Science and Technology	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	Faculty of October University for Modern Sciences and Arts	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	College of Dentistry University Florida	of To be a global leader in dental e and service.	To be a global leader in dental education, research, patient care and service.		
6 School of Dentistry Amrita University		Not available			
Aı	nnex 5: Mapping of Department \	Vision to the University and Faculty	Visions:		
University Vision		Faculty of Medical Sciences Vision	Department of Dentistry Vision		
	ī	Excellence and advancement in providing scientific knowledge in the	Excellence and leadership in providing academic education with accurate scientific		

Annex 6: Mission of the Corresponding Departments and Suggested Mission			
	The Department	Mission	
1	Faculty of dentistry Aden University	To achieve leadership in dentistry to produce qualified doctors at the international level	
2	Faculty of dentistry University of Science and Technology Yemen	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	Faculty of dentistry Jordan University of Science and Technology	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	



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		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.		
		Tanaman and salvice to our community.		
	2_	The Faculty of Dentistry, October 6 University, is committed to		
	Faculty of dentistry October University for Modern Sciences and Arts	preparing a graduate capable of providing comprehensive medical		
		care and Integrated in the field of oral and dental medicine and		
4		providing therapeutic services to the surrounding community,		
		focusing on Applied research within the framework of ethical		
		professional practices		
	100	Provide innovative dental education and deliver the highest		
		degree of patient-centered care and service, while promoting		
5	College of Dentistry University of	discovery and the generation of knowledge through research, with		
	Florida	strong commitments to community engagement, diversity and		
		inclusion.		
		Manufacture and Manufacture an		
6	School of Dentistry Amrita			
0	University			

Annex 7: Mapping of Department Mission to the University and Faculty Mission:			
University Mission	Faculty of Medical Sciences Mission	Department of Dentistry Mission	
Providing distinguished academic	The faculty of Medical Sciences	In response to the community's	
education through advanced scientific	seeks to prepare qualified graduates	need in oral and dental medicine	
programs and highly qualified cadres,	scientifically and practically in the	and surgery, was established this	
conducting research and scientific	medical and health fields, who are	section to build qualified cadres	
consultations to effectively contribute to	able to compete locally and	scientifically and practically and	
sustainable development, meeting the	regionally, by providing	ethically to provide quality	
needs of society and the labor market of	distinguished educational programs	treatment services, high-quality	
qualified cadres, creating a stimulating	in accordance with high quality	community through accurate	
environment for learning, intellectual	standards, to meet the needs of the	scientific decisions and a cadre of	
creativity, optimal employment of	local community, and the	teaching distinct and in a	



technology in accordance with quality	requirements of the local and	stimulating learning environment
systems, establishing effective local,	regional labor market.	in accordance with modern and
regional and international partnerships, and		advanced capabilities.
commitment with professional values and		_
ethics.		

Annex 8: Objectives (Educational) of the Corresponding Departments and Suggested Objectives			
	The Department	Objectives	
1	Faculty of dentistry Aden University	 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. Providing quality and distinguished health service in this case and keeping pace with developments in medical and health sciences. Developing the field of research work, and supporting links with national industrial and production institutions, the results of the research and its applications. Spreading health awareness in the field of dentistry. Providing opportunities for higher education, majoring in master's and doctoral degrees. Establishing scientific centers to serve the Yemeni community. Strengthening academic relations between the University of Aden and Arab and foreign universities. 	
2	Faculty of dentistry University of Science and Technology Yemen	 Providing a high level of education and training that guarantees the qualification of dentists with high standards of competence. 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. Providing oral and dental health services to community members through the college's dental clinics. Developing the skills of faculty members to keep abreast of developments in the means and methods of teaching and learning. 	



3	Faculty of dentistry Jordan University of Science and Technology	Work to activate partnerships and develop relationships with colleges of dentistry and scientific research institutions locally, regionally and internationally. Communicating with graduates and linking them to the college in order to develop their professional and research experiences. 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. 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. 3. To provide clinical expertise, consultative advice and first-class clinical services to the people of Jordan, nationally, and - in some disciplines - internationally. 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. 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. 6. Provision of an academic and clinical environment for the progressive development of all the disciplines within the Faculty. 7. The personal development of all staff members, based on equity and justice.
4	Faculty of dentistry October University for Modern Sciences and Arts	 The college aims to prepare a qualified graduate to meet all the challenges in the field of dentistry and his developments with complete confidence. Preparing a capable graduate of basic biological sciences and distinguished in diagnostic and prevention sciences. Preparing dentists capable of improving oral health at the country level and at the national level regional Participation in improving the performance of dentists through continuing education programs Encouraging scientific research and agreements with prestigious universities at



		the local and regional levels And the world
5	College of Dentistry University of Florida	 Develop and sustain a learner-centered educational environment. Provide excellent, patient-centered health care grounded in evidence. Support and advance preeminent basic, clinical, translational and population-based research. Upgrade and expand teaching, research and clinical care facilities and infrastructure. Enhance and maintain a supportive and humanistic environment.
6	School of Dentistry Amrita University	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	
 Preparing highly qualified cadres in various scientific fields capable of keeping pace with the requirements of sustainable development and engaging in the labor market. Creating and developing academic programs to keep pace with modern scientific developments in line with the needs of the labor market. Encouraging scientific research and participating in conferences and scientific activities both internally and externally. Contribute to community service through studies, consultations and continuous training programs. Communication and partnership with universities and research institutions locally, regionally and internationally. 	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	 Providing a level of education and training that rehabilitates dentists with high standards and efficiency Providing curative and preventive services to members of the community through dental clinics in the college Developing courses within a systematic plan by involving students and beneficiaries in the evaluation process Develop the skills of faculty members to keep pace with developments in the means and methods of teaching, learning and assessment Continuous updating of the infrastructure of the college, 	



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with universities and research including laboratories and clinics, institutions locally, regionally and in order to keep pace with internationally 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 Working activating on and partnerships 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



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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			V	م الفا	,			
A4		10	Part	V	10,			
A5			C	10	V			
A6		1	1/3					
B1			UE	C P				
B2		1	1.3	V	r II			
В3								
B4			anna Varancii	ansive(kii				
B5			Name of the last o					
C1	V	V	_ 11	√			V	
C2	<u>du</u>		9					
С3	4.6					-		
C4								
C5								
C6								
C7								
D1								√
D2								



D3						V
D4						
D5						V
D6						
D 7		- 14	- 11 -			
D8	40	SIND!	a qu	10-		

Annex 11: Alignment of Programs Standards	of Program PILOs with Council of Accreditation and Dentistry Undergraduate
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.
В3	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.
C2	C.2 Detect pathological conditions related to the dental practice.
C3	C.3 Apply infection control and radiation protection according to international standards.
C4	C.4 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	C.5 Plan when, how and where to refer a patient to a specialist based on clinical assessment.
C6	C.6 Assess the risk of medical emergencies and be competent in their management within the dental practice setup.
C7	C.7 Apply comprehensive clinical practices.
D1	D.1 Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
D2	D.2 Use advanced information and communication technologies to enrich and diversify professional experience.
D3	D.3 Demonstrate leadership and teamwork skills with colleagues and other oral health team for effective delivery of oral health care.
D4	D.4 Manage time, set treatment priorities and work to prescribed time limits.
D5	D.5 Maintain full and accurate clinical records (manual and electronic).
D6	D.6 Display appropriate attitudes both on personal and professional levels to keep an excellent regard of the profession in the society.
D7	D.7 Identify patients' expectations, desires and attitudes when considering treatment planning.
D8	D.8 Analyze and resolve problems and deal with uncertainty.



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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 Univer sity	University of Science and Technology Yemen	Jordan University of Science and Technology	October University for Modern Sciences and Arts	University of Florida	AMRITA University
Knowledge and Understandin g Skills 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	Knowledge and Understandi ng On completing		A) OUTCOMESREL ATED TO AQUIRING KNOWLEDGE AND UNDERSTANDIN G:



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the relevant	oral function.	this program	1. Adequate
biomedical	oral randron.	the graduate	knowledge of the
and	2. Communicate	must be able	scientific
behavioral	effectively and	to:	foundations on
sciences	sensibly by	to.	which dentistry is
which form	spoken and	1. Have a	which demistry is
the basis for	written means,	thorough	based and good
understandin	with patients,	understandin	understanding of
g human	parents,	g of the	various relevant
growth,	guardians, peers,	healthy	scientific methods,
development	staff and faculty	human body	
and health.		and healthy	principles of
	3. Obtain and	oral cavity	biological functions
A2. Explain	record an accurate	by becoming	and be able to
the structure	and	thoroughly	evaluate and analyse
and function	comprehensive	acquainted	scientifically various
of the	medical and	with	established facts and
human body	dentalhistory	knowledge in	data.
in health and	from patients, and	basic	data.
disease	produce an	sciences.	2. Adequate
related to the	appropriate	2. Develop	knowledge of the
practice of	systematic intra-	thorough	development,
dentistry.	and extra-oral	understandin	structure and
A3.Identify	clinical	g of the	function of the
the rules and	examination.	diseases that	
ethics	4. Interpret the	affect the	teeth, mouth and
governing	significance of	human body	jaws and associated
dental	history and	and the	tissues both in health
practices.	examination and	disease	and disease
A4.Describe	employ relevant	processes	and their
the different	special	that are	relationship and
clinical,	investigations and	unique to the	effect on general
laboratory	diagnostic	oral cavity:	state of health and
and special	procedures to	their	also
investigatory	develop	causation,	
procedures	appropriate	prevention,	bearing on physical
practiced in	differential	diagnosis,	and social well-
	diagnoses and	and	being of the patient.
dentistry.	treatment plans.	treatment.	
A5.Show an	F	a camicit.	3. Adequate
understandin	5. Demonstrate	3. Develop	knowledge of
g of the	proficiency in	the necessary	clinical disciplines



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psychologic	conducting	understandin	and methods which
al, cultural	different clinical	g of social,	provide a
and social	procedures of	economic,	
factors that	specialized areas	psychologica	coherent picture of
have	of dentistry at a	l and ethical	anomalies, lesions
implications	level that is	aspects of the	and diseases of the
on oral	appropriate for a	profession.	teeth, mouth
disease	general dentist.	1.5	and jaws and
management	- VA Vin	4. Develop	and jaws and preventive
and	6. Promote oral	and	diagnostic and
prevention.	health and disease	demonstrate	_
A 6 Eventoin	prevention	sufficient	therapeutic aspects
A6.Explain the principles	measures to	knowledge	of dentistry.
of evidence-	individual	for the	4. Adequate clinical
	patients and	comprehensi	experience required
based	employ them in	ve treatment	for general dental
dentistry and	the society.	and case	practice.
its relation to		management	pruetice.
scientific	7. Practice and	of their	5. Adequate
research	apply a wide	patients.	knowledge of the
	range of skills,	5.	constitution,
	including	Understand	biological function
	investigative,	the necessary	and
	analytical,	knowledge to	
	problemsolving,	execute	behaviour of persons
	critical thinking,	infection	in health and
	planning,	control and	sickness as well as
	presentation and	asepsis.	the influence of
	team work skills.	ascpsis.	the natural and
	8. Adhere to the	6. Develop	the natural and
		the necessary	social environment
	legal, ethical and professional	knowledge to	on the state of health
	*	manage	in so far as it
	responsibilities	emergency	affects dentistry.
	while practicing	cases	arreets demand.
	dentistry.		
	9. Apply safety		
	measures for self,		
	dental team, and		
	patient while		
	providing		
	treatment, taking		
	treatment, taking		



Intellectual Skills B1.Incorpor ate theoretical basic biomedical, behavioral		continuing self-education, medical records and communication. 12. Apply and evaluate research and new information to dental practice.	Practical and Clinical SkillsOn completing this program the graduate must be able to:	(B) OUTCOMES RELATED TO AQUIRING SKILLS: 1. Able to diagnose and manage various common
		into consideration the medico-legal issues. 10. Recognize, evaluate and manage medical and dental emergencies appropriately 11. Utilize contemporary information and technology tools available for dentist for	1 SO	



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with the	Demonstrate	encountered in
clinical	sufficient	general dental
signs and	abilities for	practice keeping in
symptoms	the	mind the
for	comprehensi	expectations
appropriate	ve treatment	and the right of the
understandin	and case	society to receive
g of disease	completion	the best possible
and its	of the	treatment
management	patients	
C 1 200	assigned to	available wherever
B2.Apply	them. The	possible.
critical	comprehensi	2. Acquire the skill
thinking and	ve treatment	to prevent and
evidence-	must involve	manage
based	all aspects of	complications if
problem	preventive	encountered
solving	procedures	while carrying out
when	and general	various surgical
providing	dental care,	and other
patient's	with an	procedures.
care.	appropriate	1
- CANCELLA C	emphasis on	3. Possess skill to
B3.	restorative	carry out certain
Prioritize	dental	investigative
patients	treatment.	procedures and
treatment	2.	ability to
needs and	Demonstrate	interpret laboratory
formulate	sufficient	findings.
An	abilities in	4. Promote oral
awareness that dentists	different	health and help
should strive	local	prevent oral
to provide	anaesthetic	diseases where
the highest	techniques	possible.
possible	and	•
quality of	treatment of	5. Competent in the control of pain
patient care	general	and anxiety among
an	restorative	the patients during
appropriate	cases with	
treatment	different	dental treatment.
plan.	filling	
Piuii.	3	



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		, · · · · · · · · · · · · · · · · · · ·	
B4.Construc		materials,	
t preventive		treatment of	
strategies at		completely	
different		and partially	
levels		edentulous	
according to		cases,	
the targeted		treatment by	
individual		using simple	
and	- 1 A V %	crown and	
community	20175	bridge	
needs.	100 May 200	prostheses,	
		endodontic	
	The state of the s	treatment,	
	10 Valley	execution of	
		all types of	
	HAM SHOW	extractions	
	U	and minor	
	- TALL - A		
	1. 2	oral surgery,	
	1/1/2/2010	periodontal	
		treatment,	
		root	
	THE NATIONAL US	planning,	
		prophylaxis	
		and simple	
		periodontal	
	3/11/	surgery.	
		3. Diagnose	
0.0		the common	
		oral lesions	
		and the need	
		for	
		orthodontic	
	1 7 7	care and	
		fabricate	
		simple	
		appliances.	
		4. Be able to	
		specialists	
		orthodontic appliances. 4. Be able to diagnose and refer to	



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THE NATIONAL SALES OF	cases that need implants, specialised orthodontic treatment and/or maxillofacial surgery or prostheses. 5. Be able to perform primary dental care for children. 6. Manage dental and medical emergencies 7. Apply current infection control guidelines. Be able to .8 fabricate most types of prostheses in the lab, process acrylic resin, correct technical errors and cast different types of .metals 9. Control patient
---	--



Professional		anxiety and prescribe the appropriate drugs.	
Professional and Practical Skills C1.Obtain and record a comprehensi ve history, perform an appropriate physical examination, interpret the findings and organize appropriate further investigation s to reach a correct diagnosis and treatment. C2.Detect pathological conditions related to the dental practice.		Intellectual Skills On completing this program the graduate must be able to: 1. Seek out, analyse and integrate diagnostic data to solve clinical problems. 2. Develop the necessary interperson al skills to interact at an appropriate professiona	(C) OUTCOMES RELATED TO AQUIRING THE RIGHT ATTITUDE: 1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community. 2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life. 3. Seek to improve awareness and provide possible solutions for oral health problems and needs
C3.Apply infection control and radiation protection according to		1 level with their patients. 3. Demonstrat	throughout the community. 4. Willingness to participate in the CPED



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international standards.	e an ability to prepare Programmes to update the
C4.Apply preventive	appropriate knowledge and diagnosis professional skill
measures for	and design from time to time.
different age	treatment plans, to 5. To help and
groups bearing in	present the participate in the
mind the	diagnosis implementation of the national oral
different	and treatment health
needs of young	options to policy.
children,	their
adolescents,	patients, to manage the
adults, special	dental care
needs and	of assigned
the ageing	patients.
population/e	4. Develop the
Iderly.	necessary
C5.Plan when, how	skills to
and where to	interact
refer a	with different
patient to a specialist	specialties
based on	and
clinical	department s.
assessment.	5. Develop
C6.Assess the risk of	the
medical	necessary
emergencies	skills in
and be	perceiving colour and
competent in their	aesthetics
management	6. Estimate
within the	the effects
dental practice	of medication
	s taken by



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	<u></u>				
setup.			the patient		
C7. Apply			on dental		
comprehensiv			manageme		
e clinical			nt.		
practices and					
evidence-					
based					
treatment					
		11 10	1 ~		
General and		Dr V	911		
Transferable	0	The state of the s	710		
Skills			3		
			On		
D.1 Commit	/	No. of Contrast, Name of Street, or other lands	completing		
to		Hall	this		
continuous		The same	program		
education,		1 2	the		
self-			graduate		
development		1	must be		
and long-life		Ver in	able to:		
learning to			1.		
remain	7	THE NATIONAL OF	Appreciate		
updated with		CHALLESCAL COLUMNIA (ACIA	using		
advances in			sources of		
dental			continuing		
practice.			education		
D.2 Use			and	7	
advanced			accurate		
information			information		
and			technology		
communicati		PA. III	in		
on		1	providing		
technologies			contempora		
to enrich and			ry dental		
diversify			care.		
professional					
experience.			2. Develop		
D.3			a team		
D.3 Demonstrate			approach to		
			conduct		
leadership			multidiscip		
and			linary		



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teamwork	treatment
skills with	plan for the
colleagues	assigned
and other	patients in
oral health	a scientific
team for	and ethical
effective	approach.
delivery of	3. Critically
oral health	read,
care.	appraise
D.4 Manage	and review
time, set	the dental
treatment	literature.
priorities	
and work to	4. Perform
prescribed	critical
time limits	thinking
	and
D.5	problem
Maintain	solving in
full and	dental
accurate	education.
clinical	5. Be fully
records	aware of
(manual and	the
electronic).	necessity of
D.6 Display	basic
appropriate	concepts of
attitudes	quality
both on	assurance.
personal and	6. Develop
professional	analytical
levels to	and
keep an	presentatio
excellent	nal skills
regard of the	through the
profession in	preparation
the society.	, delivery
D.7 Identify	and
patients'	participatio
expectations	n in



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, desires and			assessed	
attitudes			seminars.	
when				
considering				
treatment				
planning.				
D.8 Analyze				
and resolve				
problems and		14 19		
deal with	9	Dr. ~		
uncertainty	- 0	The state of the s		
			6 34	

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 Course s	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
			Frist year	/ 1 st Semester			
No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name



1	Arabic language 1		Islamic culture	Social Responsibility	General	Gross	General Human Anatomy Including
		الأحياء	- \ \	- الق	Chemistry	Anatomy	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	Communicatio ns skills	General Biology	Biology	Development Biology and PsychologyIs sue over the lifespan 1	Biochemistry
4	Arabic Israeli conflict	اللغة الإنجليزية	Computer Skills	General Biology Lab	Genetics	Foundations of perofessional ism	Dental Anatomy Embryology and Oral Histology
5	Computer Skills	الصحة العامة	General Chemistry	General Chemistry	Dental Anatomy I	Interdisciplin ary 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 l	Dental Anatomy and Stomatologna thics	Pre clinical Prosthodontic & s Crown & Bridge (Part of Prosthodontic s Course of Final



							Year)
7	General Biology		Tooth Morphology	General Physics	Computer science I		
8	Medical Physics			English 99			
9	Dental Morphology 1		- 1.1	- الق			
			Frist year	· / 2 nd Semester			
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	Communicatio ns 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	Professionali sm in Patient Care and Practice Management	
6	General Anatomy		Properties od 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						



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			Summ	er semester			
1				University Elective			
2				Biochemistry			
3				Biochemistry Lab			
4		2	Idillo	Military Sciences	1/2		
			Second yea	r / 1 st Semester			
1	Biostatistics	تشريح الرأس والرقبة	General histology& embryology	Molecular Genetics	Dental Materials II	Host Defense	General & Dental Pharmacolog y 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 وظانف 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	Professionali sm in Patient Care and Practice Management	Dental Materials
5	Biochemistry (1)	طب صناعة الأسنان	Research Methodology	General Microbiology	Biochemistry	Interdisciplin ary 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 Prosthodontic s)
7	Dental materials (1)		Biochemistry	General Skills	Financial Planning	Fundamental s of Occlussion	Pre Clinical Conservative Dentistry (Part of Final Year Conservative Dentistry)
8	Medical Ethics		General & Head & Neck Anatomy	7	Instructor CPR	Fundamental s of Oral & Maxillofacial Radiology	
9			Human Physiology				
10			Removable Prosthodontics (1)	AL OVIVERSH	9/		
			Scond year	r / 2 nd Semester			
1	General pathology	علم وظانف 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	Professionali sm in Patient Care and Practice Management	
4	Oral Histology (2)	مقدمة في طب الأسنان التحفظي	Oral Histology	Systemic Pathology	Physiology II	Interdisciplin ary service learning II	
5	Dental materials (2)		Biochemistry	Oral Physiology	General Pathology	Introduction to Clinical Diagnosis and	



			I		T	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 Prosthodontic s I	
8	Genetic		Removable Prosthodontics (1)	Oral Radiology I	Introduction to Dentistry	Periodontic Treatment Planning and Disease Control	
9	Patient Assessment & First Aid		9/5	1		Principles of Endodontics	
			Summe	er semester		T.	
1				General Internal Medicine	1	Public Health	
2			WIHE NATION	General Surgery and Anaesthesia		Oral Medicine and Pharmacother apeutics	
3		ا.	иII	Basic Emergency Care		Principles of PHamacolog	
4			5	Entrepreneurs hip And Innovation		Introduction to OMFS 1	
5			Λ	University Elective		Professionali sm in Patient Care and Practice Management	
6						Interdisciplin ary service learning II	
7						Pain and Anxiety Control in Dental Patients	
8						Prosthodontic Treatment of Edentulous Patient	



الجمهورية البمنسية وزارة التطيم العالمي والبحث الطمي الجامعة الوطنية - صنعاء كلية طب وجراحة الفم والأسنان قسم طب الأسنان

9						Basic	
						Endodontic Therapy	
10						Preclinical Fixed prosthodontic s II	
			Third year	/ 1 st Semester	1		
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 Prosthodontic s I	Professionali sm in Patient Care and Practice Management II	General Surgery
3	Oral pathology (1)	الطب الباطني العام	Oral Diagnosis	Dental Therapeutics	Removable Prosthodontic s I	Interdisciplin ary 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	Fundamentali s of Pediatric Dentistry	Paediatric and Preventive Dentistry
6	Pre-clinical Removable Prosthodontics (2)	جراحة القم والأسنان	Endodontics (1)	Oral Radiology II	Pharmacology	Removal Partial Prosthodontic s: principles and Techniques	Orthodontics & Dentofacial Orthopaedics
7	General Medicine	علم أشعة الفم	Removable Prosthodontics (2)	Oral Pathology I		Clinical Operative Dentistry 1	Periodontolo gy
8	Medically compromised patient		Fixed Prosthodontics (1)	Removable Prosthodontics I		Comperhensi ve 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		-	Idellas	بة الغر	/o.	Clinical Radiology 1: Radiographic Technique	
			Third year	/ 2 nd Semester			
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	Professionali sm 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 القم والأسنان	Endodontics (1)	Oral Pathology II	Dental Radiology	Clinical Oerative 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		ldis	آ الغر	Cliniocal Pediatric Dentistry 1
12		S P CITI		Oral Diagnosis/M edicine & Treatment Planning I
13				Clinical Orthodontics
14			2	Hospital Dentistry
		Summe	er semester	
1			University Elective	Evidence- Based Endodontics
2		THE NATION	Communicatio n skills	Overview of Advaced Oral and Maxillofacial Surgery
3	بل	الوطنا	Introduction to Clinical Dentistry	Dental Care For the Geriatic Patient
4				Advanced Oral Medicine and Clinical Pharmcology
5)	Professionali sm in Patient Care and Practice Management III
6				Interdisciplin ary service learning III
7				Clinical use of Dental Materials
8				Clinical Operative Dentistry 3



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9						Comperhensi	
						ve Periodontal Treatment 3	
10						Advaced Radiologic Interpretation	
	'		Fourth year	r / 1 st Semester	I	1	
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 Prosthodontic s III	Comperhensi ve Periodontal Treatment 4	Paediatric and Preventive Dentistry
3	Clinical Operative Dentistry (1)	الأمراض الجلدية والتناسلية	Oral surgery Technique	Conservative Dentistry I	Removable Prosthodontic s III	Professionali sm in Patient Care and Practice Management III	Orthodontics & Dentofacial Orthopaedics
4	Oral Medicine (1)	طب الأسنان التحفظي	Pedodontics (1)	Clinical Oral Diagnosis/Clin ical Oral Radiology I	Endodontics III	Interdisciplin ary service learning IV	Periodontolo gy
5	Periodontolog y (1)	صناعة الأسنان	Periodontolog y (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 Periodontolog y I	Clinical Endodontics 3	Conservative & Dentistry Endodontics
7	Orthodontics (1)	الأخلاق الطبية	Endodontics (2)	Periodontolog y II	Oral Surgery & Anesthesia	Oral Diagnosis/M edicine & Treatment Planning 2	Prosthodontic s and Crown & Bridge
8	Clinical Fixed Prosthodontic s (1)		Removable Prosthodontics (3)	Oral Surgery I	General Surgery	Clinical Prosthodontic s 3	Public Health Dentistry
9			Fixed Prosthodontics	Orthodontics I		Hospital Dentistry	



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			(2)				
10			Orthodontics (1)			Cliniocal Pediatric Dentistry 2	
11			Oral Medicine			Clinical Oral Surgery 2	
12				-1.		Clinical Radiology 1: Radiographic Technique	
13			Ide	i luck	1	Community Dentistry	
14			D. T.		(2)	Clinical Oncology and Oral Pathology	
			Fourth year	· / 2 nd Semester			
1	Clinical Removable Prosthodontics (2)	الجراحة العامة	Medically compromised patient in Dentistry	Preventive Dentistry	Conservative Dentistry IV	Comperhensi ve Periodontal Treatment 5	
2	Oral surgery (2)	أمراض الأنف والأذن والحنجرة	Oral surgery Technique	Paediatric Dentistry III	Fixed Prosthodontic s IV	Professionali sm in Patient Care and Practice Management IV	
3	Clinical Operative Dentistry (2)	طب العيون	Pedodontics (1)	Conservative Dentistry II	Removable Prosthodontic s IV	Interdisciplin ary service learning IV	
4	Oral Medicine (2)	طب أسنان الأطفال	Periodontolog y (1)	Clinical Oral Diagnosis/ Clinical Oral Radiology II	Endodontics IV	Clinical Operative Dentistry 5	
5	Periodontolog y (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/M edicine & Treatment Planning 3	
7	Orthodontics (2)	طب صناعة الأسنان	Removable Prosthodontics (3)	Pre-clinical Fixed Prosthodontics I	Orthodontics II	Clinical Prosthodontic s 4	



8	Clinical Fixed Prosthodontic s (2)		Fixed Prosthodontics (2)	Periodontolog y III	General Medicine	Hospital Dentistry
9	Pedodontics (1)		Orthodontics (1)	Oral Surgery II		Cliniocal Pediatric Dentistry 3
10			Oral Medicine	Orthodontics II		Clinical Oral Surgery 2
11		3	Iduly	all a	1/0,	Clinical Radiology 2: Radiographic Technique
12					1	Community Dentistry II
13						Clinical Oncology and Oral Pathology
			Summ	er semester		
1		11		Comprehensiv e Dental Care I	1	Advanced Topics in Prosthodontic s
2		-	WITHE NATION	AL UVIVERSII		Clinical Prosthodontic s 5
3						Comperhensi ve Periodontal Treatment6
4				QL(Clinical Operative Dentistry 6
5						Clinical Endodontics 5
6						Cliniocal Pediatric Dentistry 4
7						Community Dentistry III
			Fifth year	/ 1 st Semester		
1	Oral & Maxillofacial Surgery (1)	طب الأسنان الوقاني والصحة العامة	Dental Therapeutics	Research Project	Conservative Dentistry V	
2	Periodontolog y (3)	طب الأسنان الشرعي	Maxillofacial Prosthesis	Comprehensiv e Dental care II	Fixed Prosthodontic s 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	
8	Research Methodology		Periodontolog y (2)	Oral and Maxillofacial Surgery I		
9	d	طن	Oral & Maxillofacial Surgery	Orthodontics III		
10			Comprehensiv e clinical Practice	111		
			Fifth year	/ 2 nd Semester		
1	Oral & Maxillofacial Surgery (2)	تطبيق عملي شامل	Occlsion & TMJ Disorders	Dental Practice Management	Conservative Dentistry VI	
2	Periodontolog y (4)	طب الأسنان التحفظي	Prodthetic 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)	4	Periodontolog y (2)	Aesthetic Dentistry	Oral Medicine & Periodontolog y IV		
7	Comprehensiv e Clinical Dentistry (2)		Oral & Maxillofacial Surgery	Conservative Dentistry IV	Oral Surgery & Anesthesia IV		
8			Comprehensiv e clinical Practice	Oral Medicine III	1		
9				Prosthodontics II			
10			ATTE NATION	Periodontolog y V	4		
11	نك	ib	الو	Oral and Maxillofacial Surgery II		7	
12				Orthodontics IV			



الجمهورية البعنسية وزارة التعليم العالمي والبحث العلمي الجامعة الوطنية - صنعاء كلية طب وجراحة القم والأسنان قسم طب الاسنان



الجـامعة الوطنية NU

The National University- Sana'a

Faculty of Medical ScienceDepartment of Dentistry

College of dentistry

Department of Oral and Dental Surgery



الجمهوريسة البمنسية زارة التعليم العالسي والبحث العلمي الجامعة الوطنية - صنعاء كلية طب الأسنان قسم طب وجراحة القم والأسنان

The I					Ade	n Un	ivers	sity		Univer and Tec	•			1	Jordan		-	of Sology			Oct Un y Mo Sci and	ive fo ode	rsit r ern ces	t	t	ive y o orio			VM Uni		
	Co	ourse	Hou	rs		(Course	Hours		Course	Co	ourse I	Iours		Course	Со	ourse H	lours		Course		Cou Hou			C o	Cou Ho		0		Cou Ho	rse urs
Course	C H	L	P	Т	Course	С	L	P	Т	•	СН	L	P	Т		СН	L	P	Т		C H	L	P	T	r C	L	P		_	L	P
Arabic language	2	2			الأحياء	3	2	1	ı	Islamic culture	4	4		1	Social Responsibi lity	3	2	1		English Language 1	3	3									
Islamic culture	2	2			الكيمياء	4	3	1		English language 1	4		8		Student Culture & University Behavior	1	1			English Language 2	3	3									



الجمهوريسة البمنسية زارة التعليم العالمي والبحث العلمي الجامعة الوطنية - صنعاء كلية طب وجراحة الفم والأسنان قسم طب الأسنان

English language	2	2		الفيزياء	3	2	1	Commun ications skills	91	1	D .	Malo P.	General Biology	3	3		Introduction to Computer Science	3	2 2			
Arabic Israeli conflict	2	2		اللغة الإنجليزية	1. 5	1	0. 5	Compute r Skills	3	1	6	000	General Biology Lab	1		2	English Language for Research	3	2 2			
Compute r Skills	2	1	2	الصحة العامة	1. 5	1	0. 5	General Chemistr y	3	2	2)	General Chemistry	3	3		Business Administrati on	2	2			
General Chemistr y	3	2	2	علم تشريح الأسنان	4. 5	3	1. 5	General Biology	3	2	2		General Chemistry Lab	1		2	Elementary Electronics	2	1 2			
General Biology	3	2	2	التشريح العام لجسم الإنسان	5. 5	4	1. 5	Tooth Morphol ogy	4	2	2		General Physics	3	100	3	Nutrition	2	2			
Medical Physics	3	2	2	علم الأنسجة العام	5. 5	4	1. 5	Skills of holy Quran Recitatio n &	1		2		English 99	3		3	Medical Photograph y	2	2			



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Dental Morphol ogy 1	3	2	3	علم الأجنة العام	5. 5	4	1. 5	Tajweed English language 2	4		8	Organic Chemistry	3	3		General Material Science	2	1 2			
Arabic language 2	2	2		الكيمياء الحيوية (الجزء الأول)	4	3	1	Arabic language	4	2	4	General Anatomy & Embryolog	3	3		Introduction to Psychology & Sociology	2	2			
English language	2	2		علم تشريح الأسنان	4. 5	3	1. 5	Organic chemistry	3	2	2	General Anatomy & Embryology Lab	1		3	Advanced Statistics	2	2			
Nationali ty culture	2	2		تشريح الرأس والرقبة	4	3	1	Biophysi cs	3	2	2	General Histology	4	3	3	Dental Informatics	2	1 2			
Commun ications skills	2	2		الكيمياء الحيوية (الجزء الثاني)	4	3	1	Propertie s od Dental Biomater ial	2	1	2	Human Physiology	3	3		Basic Life Support	2	1 2			
Medical terminol	2	2		علم وظائف	4	3	1	Critical	1	1		Human Physiology	1		3	Inorganic	3	2 2			



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ogy				الأعضاء (الجزء الأول)				Thinking	9		n'	07.07	Lab	10			Chemistry					
General Anatomy	3	2	2	مواد الأسنان	4. 5	3	1. 5	Tooth Morphol ogy	4	2	2	1	Computer Skills	3	2	3	Physical Chemistry	1	1			
Organic chemistr y	3	2	2	طب صناعة الأسنان	4. 5	3	1. 5	General histology & embryolo gy	3	2	2		ARABIC LANGUA GE	3	3		Physics	3	2 2			
Dental Morphol ogy 2	3	2	3	علم وظائف الأعضاء (الجزء الثاني)	4	3	1	Dental Materials	2	1	2	L	University Elective	3	3		Zoology	2	1 2			
General histology & embryol ogy	3	2	2	علم الأحياء الدقيقة والطفيليات	4	3	1	Leadershi ps Skills Develop ment	1	1			Biochemist ry	3	3		Botany	2	1 2			
Biostatist	2	2		علم أنسجة الفم	3	2	1	Medical Ethics	2	2			Biochemist ry Lab	1		2	Statistics	1	1			



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Microbio logy and Immunol ogy	4	3	2		مقدمة فر طب الأسنان التحفظي	3. 5	2	1. 5	Research Methodol ogy	2	2	D.	Mess T	Military Sciences	3	3	3	Descriptive Dental Anatomy-1	3	1 4	l			
Anatom y (Head and Neck)	3	2	2	۷	علم الأمراض العام	4	3	1	Oral Histology	3	2	2	0.0	Molecular Genetics	3	3		Organic Chemistry	4	3 2	2			
Physiolo gy (1)	3	2	2	,	علم الأدو (الجزء الأول)	4	3	1	Biochemi stry	4	3	2	Ţ	Head and Neck Anatomy	3	3		Dental Materials-1	3	2 2	2			
Biochem istry (1)	3	2	2		الطب الباطني العام	4. 5	3	1. 5	General & Head & Neck Anatomy	6	3	6	T	Head and Neck Anatomy Lab	7		3	General Histology-1	3	2 2	2			
Oral Histolog y (1)	3	2	2		طب صناء	3. 5	2	1.	Human Physiolo gy	4	3	2		General Pathology	3	2	3	Medical Microbiolog y-1	2	1 2	2			
Dental material s (1)	2	2			طب الأسنان التحفظي	3. 5	2	1. 5	Removab le Prosthod ontics (1)	6	2	8		General Microbiolo gy	3	2	3	Principles of Genetics	1	1				



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Medical Ethics	2	2		جراحة الفم والأسنان	3. 5	2	1. 5	Operative dentistry (1)	4	2	4	Dental Anatomy and Occlusion	3	1	4	Descriptive Dental Anatomy-2	3	1 4				
General patholog y	3	2	2	علم أشعة القم	3	2	1	Biostatist	2	2		General Skills	3	3		Dental Ethics and Legal Aspects	1	1				
Physiolo gy (2)	3	2	2	علم أمراض الفم واللثة	3	2	1	Medical English	3		6	Immunolo gy	3	3		Dental Materials-2	3	2 2	2			
Biochem istry (2)	3	2	2	علم الأدوية (الجزء الثاني)	4	3	1	Oral Histology	3	2	2	General Pharmacol ogy	3	3		General Histology-2	3	2 2	2			
Oral Histolog y (2)	3	2	2	الطب الباطني العام	4. 5	3	1. 5	Biochemi stry	4	3	2	Clinical Psycholog y	3	3		Medical Microbiolog y-2	2	1 2				
Dental materials (2)	3	2	2	طب الأسنان التحفظي	3. 5	2	1. 5	General & Head & Neck	6	3	6	Systemic Pathology	3	3		Oral Biology-1	3	2 2	2			



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Pre- clinical Operativ e dentistry (1)	3	2	3	طب صناعة الأسنان	3. 5	2	1. 5	Anatomy Human Physiolo gy	4	3	2	T New L	Oral Physiology	1	1		General Anatomy-1	3	2 2			
Pre- clinical Remova ble Prosthod	3	2	3	جراحة الفم والأسنان	3. 5	2	1. 5	Removab le Prosthod ontics (1)	6	2	8		Oral Histology and Embryolog	4	3	2	Human Physiology-1	4	3 2			
Genetic	2	2		علم النفس الطبي (علوم سلوكية)	3	2	1	General patholog y	3	2	2	1.6	Fundament als of Dental Caries		1		Biochemistr y-1	3	2 2	!		
Patient Assessm ent & First Aid	1		2	الجراحة العامة	3. 5	2	1. 5	Oral & Maxillofa cial Radiolog y	4	2	4		Oral Radiology I	1	1		Operative Dentistry Technology- 1	2	2 2			
Public health	3	3		طب أمراض	3	2	1	Oral Diagnosi	2	1	3		General Internal	2	2		Applied Dental	2	1 1			



				الفم				S	- 1	6	1/0	Medicine	1		Materials-3				
Pharmac ology	2	2		الأمراض الجلدية والتناسلية	3	2	1	Local Anesthesi a & Exodonti a	3	2	3	General Surgery and Anaesthesi a	2	2	Removable Prosthetics Technology- 1	2	1 1		
Oral patholog y (1)	3	2	2	طب الأسنان التحفظي	3. 5	2	1. 5	Operative dentistry (1)	4	2	6	Basic Emergency Care		1	Oral Biology-2	3	2 2		
Oral Diagnosi s and Radiolog y (1)	3	2	2	صناعة الأسنان	3. 5	2	1. 5	Endodont ics (1)	3	2	2	Entreprene urship And Innovation	2	2	Pharmacolo gy-1	2	1 1		
Pre- clinical Operativ e Dentistry (2)	3	2	2	جراحة الوجه والفكين	3. 5	2	1. 5	Removab le Prosthod ontics (2)	6	2	8	University Elective	3	3	General Anatomy-2	3	2 2		
Pre- clinical Remova ble	3	2	2	الأخلاق الطبية	3	2	1	Fixed Prosthod ontics (1)	6	2	8	Basic Infection Control	1	1	Human Physiology-2	3	2 2		



Prosthod)2ontics (W	10	Ľ	Measures	1									
General Medicine	2	2		الجراحة العامة	3. 5	2	1. 5	Oral patholog	4	3	2	F 350	Dental Ethics and Jurisprude nce	Ų	1		Biochemistr y-2	3	2 2	2			
Medicall y compro mised patient	1	1		أمراض الأنف والأذن والحنجرة	4	2	2	Microbio logy and Immunol ogy	3	2	2	000	Dental Therapeuti cs		1		Operative Dentistry Technology- 2	3	1 4	ļ			
Pre- clinical Endo (1)	3	2	3	طب العيون	4	2	2	Pharmac ology	2	2	10)(Dental Materials I	2	2		Fixed Prosthetics Technology-	3	1 4	ļ			
Pre- clinical Fixed Prosthod)1ontics (3	2	3	طب أسنان الأطفال	4	2	2	Oral & Maxillofa cial Radiolog y	4	2	4		Operative Dentistry	3	1	4	Removable Prosthetics Technology- 2	3	1 4	ŀ			
General Surgery	2	2		طب تقويم الأسنان	4	2	2	Oral Diagnosi s	2	1	3		Oral Radiology II	2	2		General Patholohy-1	3	2 2	2			



Oral patholog y (2)	3	2		طب الأسنان التحفظي	4	2	2	Local Anesthesi a & Exodonti a	3	2	3	Pa	Oral athology I	3	2	2	Pharmacolo gy-2	2	1 2	2
Oral Diagnosi s and Radiolo gy (2)	3	2	2	طب صناعة الأسنان	4	2	2	Operative dentistry (2)	4	2	6	Pro	emovable osthodon tics I	3	1	4	Dental Radiology-1	2	1 2	2
Pre- clinical Operativ e Dentistry)3(3	2	2	طب الأسنان الوقائي والصحة العامة	3	2	1	Endodont ics (1)	3	2	2	Ar	Dental nesthesia and sedation	1	1		Operative Dentistry Technology- 3	3	1 4	4
Pre- clinical Remova ble Prosthod ontics (3)	3	2	3	طب الأسنان الشرعي	3	2	1	Removab le Prosthod ontics (2)	6	2	8		aediatric entistry I	2	1	2	Fixed Prosthetics Technology- 2	3	1 4	4
Pre- clinical	3	2	3	جراحة الوجه	4.	3	1.	Fixed Prosthod	6	2	8		Dental Iaterials	1	1		Removable Prosthetics	3	1	4



Fixed Prosthod ontics)2(Pre- clinical Endo (2)	3	2	3	والفكين طب تقويم الأسنان	5 3. 5	2	5 1. 5	Oral patholog	4	3	2	NOW 7	II Endodonti	3	1	4	Technology- 3 General Patholohy-2	3	2 2	2			
Psychol ogy	1	1	3	طب الأسنان التحفظي	4. 5	3	1. 5	Microbio logy and Immunol ogy	3	2	2	00	Oral Diagnosis	1	1		Oral Pathology-1	5	4 2	2			
Dental Anesthe sia and exodonti a	2	2		طب صناعة الأسنان	4. 5	3	1. 5	General Internal Medicine	2	2	TED N	10	Preclinical Oral Diagnosis and Oral Radiology	1		2	Orthodontic s-1	2	1 2	2			
Clinical Remova ble Prosthod ontics (1)	3	2		تطبيق عملي شامل	6	4	2	General & ENT Surgery	2	2			Oral Pathology II	3	2	2	Dental Radiology-2	3	2 2	2			
Oral surgery (1)	3	2	3	تطبیق عملي	6	4	2	Oral surgery Techniqu	4	2	6		Removable Prosthodon tics II	3	1	4	Clinical Operative	2	1 2	2			



				شامل				e		6	3/	all a	1			Dentistry-1					
Clinical Operativ e Dentistr)1y (3	2	3	طب الأسنان التحفظي	6. 5	4	2.	Pedodont ics (1)	4	2	4	Periodonto logy I	2	1	2	Endodontics Technology	2	1 2			
Oral Medicine)1(3	2	3	طب صناعة الأسنان	6. 5	4	2.	Periodont ology (1)	4	2	6	Biostatistic s	2	2		Clinical Fixed Prosthodont ics-1	2	1 2			
Periodon tology (1)	3	2	3	جراحة الوجه والفكين	6. 5	4	2. 5	Operative Dentistry (3)	3	1	6	University Elective	3	3		Clinical Removable Prosthodont ics-1	2	1 2			
Clinical Endodon)1(tic	3	2	3		(Endodont ics (2)	3	1	6	Communic ation skills	3	3		Oral Pathology-2	4	3 2			
Orthodo ntics (1)	3	2	3					Removab le Prosthod ontics (3)	6	2	8	Introductio n to Clinical Dentistry	1		2	General Medicine-1	3 2	2 2			



Clinical Fixed Prosthod ontics (1)	3	2	2			Fixed Prosthod ontics (2)	6	2	8	Oral Epidemiol ogy	/g	1		General Surgery-1	3	2	2		
Clinical Remova ble Prosthod)2ontics (3	2		3		Orthodon tics (1)	4	2	4	Paediatric Dentistry II	2	1	2	Oral Medicine, Diagnosis & Radiology-1	2	1 2	2		
Oral surgery (2)	3	2		3		Oral Medicine	4	2	4	Conservati ve Dentistry I	4	1	6	Oral Surgery & Anaesthesia -1	3	2 2	2		
Clinical Operativ e Dentistr)2y (3	2		3	Ë	Medicall y comprom ised patient in Dentistry	1	1		Clinical Oral Diagnosis/ Clinical Oral Radiology	1		2	Clinical Operative Dentistry-2	3	1 4	1		
Oral Medicin e (2)	3	2		3		Oral surgery Techniqu	4	2	6	Removable Prosthodon	3	1	4	Endodontics Technology-	2	1	2		



						e		W	3/	tics III	1			2						
Periodon tology (2)	3	2		3		Pedodont ics (1)	4	2	4	Fixed Prosthodon tics	1	1		Clinical Fixed Prosthodont ics-2	3	1 4	1			
Clinical Endodon)2(tic	3	2		3		Periodont ology (1)		2	6	Periodonto logy II	2	1	2	Clinical Removable Prosthodont ics-2	3	1 4	1			
Orthodo ntics (2)	3	2		3		Operative Dentistry (3)		1,	6	Oral Surgery I	2	1	2	Orthodontic s-2	2	1 2	2			
Clinical Fixed Prosthod ontics)2(3	2	2		ä	Endodoni ics (2)	3	1	6	Orthodonti cs I	2	1	2	General Medicine-2	2	2				
Pedodon tics (1)				3		Removab le Prosthod ontics (3)	6	2	8	Preventive Dentistry	2	2		General Surgery-2	2	2				



Oral & Maxillof acial Surgery (1)	3	2		Fixed Prosthod ontics (2)	6	2	8	Paediatric Dentistry III	2	1	2	Oral Medicine, Diagnosis & Radiology-2	3	2 2	?
Periodon tology (3)	3	2	3	Orthodon tics (1)	4	2	4	Conservati ve Dentistry II	3	1	4	Oral Surgery & Anaesthesia -2	3	2 2	
Pedodon tics (2)	3	2	3	Oral Medicine	4	2	4	Clinical Oral Diagnosis/ Clinical Oral Radiology II	1	0	2	Clinical Operative Dentistry-3	3	1 4	
Orthodo ntics (3)	3	2	3	Dental Therapeu tics	1	1		Oral Medicine I	1	1		Clinical Fixed Prosthodont ics-3	3	1 4	+
Preventi ve dentistry	3	2	3	Maxillofa cial Prosthesi	2	1	3	Removable Prosthodon	2	1	2	Clinical Removable	3	1 4	k



(1)					S	9		l /g	tics IV	0,			Prosthodont ics-3					
Oral Medicin e (3)	3	2	3		Basic Life Support	2	1	1	Pre- clinical Fixed Prosthodon tics I	2		4	Clinical Endodontics -1	3	2 2			
Compre hensive Clinical Dentistr y (1)	4	2	3		Surgical Procedur es in Implant Dentistry	1	1		Periodonto logy III	2	1	2	Paedodontic s-1	2	1 1			
Research Methodo logy	2	2	6	ä	Dental Public Health & Commun ity Dentistry	1	1		Oral Surgery II	2	1	2	Oral Medicine & Periodontol ogy-3	4	3 2			
Oral & Maxillof acial Surgery (2)	3	2			Orthodon tics (2)	2	1	3	Orthodonti cs II	2	1	2	Oral Surgery & Anaesthesia -3	3	2 2			



Periodon tology (4)	3	2	3		Pedodo ics (2)	4	2	4	Comprehe nsive Dental Care I	5		10	Clinical Operative Dentistry-4	3	1 4	4
Pedodon)3tics (3	2	3		Periodo ology (2	6	Research Project	2	1	2	Clinical Fixed Prosthodont ics-4	3	1 4	4
Orthodo ntics (4)	3	2	3		Oral & Maxillo cial Surgery	a 4	2	6	Comprehe nsive Dental care II			4	Clinical Removable Prosthodont ics-4	3	1 4	4
Preventi ve dentistry	3	2	3	ä	Compre ensive clinical Practice	8	2	18	Paediatric Dentistry IV	2	1	2	Clinical Endodontics -2	2	1 2	2
Oral Medicin e (4)	3	2	3		Occlsic & TM. Disorde				Conservati ve Dentistry III	3	1	4	Paedodontic s-2	2	1 2	2
Compre hensive	4	2	3		Prodthe	i 1	1		Oral Medicine	2	1	2	Oral Medicine &	3	2 2	2



Clinical Dentistr y (2)					Rehabilit ation in Implant Dentistry	91		1	No.85	U II Q	10			Periodontol ogy -4					
		6			Dental Public Health & Commun ity Dentistry	4	2	6	000	Prosthodon tics I	3	1	4	Oral Surgery & Anaesthesia -4	4 3	2			
					Orthodon tics (2)	2	1	3	ł	Periodonto logy IV	2	1	2						
					Pedodont ics (2)	4	2	4		Oral and Maxillofac ial Surgery I	2	1	2	_ 11					
			E	0.0	Periodont ology (2)	4	2	6		Orthodonti cs III	2		2						
					Oral & Maxillofa cial Surgery	4	2	6		Dental Practice Manageme nt	1	1							



	Compreh ensive clinical Practice	2	18	Oral Implantolo gy	1 1 Q	1					
	3	1	T.	Comprehe nsive Dental care III	2		4				
	1	THE PERSON NAMED IN		Communit y Dentistry	3	1	4				
	1	8500	TU N	Paediatric Dentistry V	1		2				
			ī	Aesthetic Dentistry	1	1		Inr			
				Conservati ve Dentistry IV	2		4				
			V	Oral Medicine III	1		2				



الجمهوريسة البمنسية رزارة التعليم العالسي والبحث العلمي الجامعة الوطنية - صنعاء كلية طب وجراحة الفع والأسنان قسم طب الأسنان

					ai	W	10	P	Prosthodon tics II	2		4						
					1				Periodonto logy V	1		2						
					3	The Real Property lies	WID	N	Oral and Maxillofac al Surgery II	2	1	2						
						hi		С	Orthodonti cs IV	1		2						

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الجمهورية البعنسية وزارة التعليم العالمي والبحث العلمي الجامعة الوطنية - صنعاء كلية طب الأسنان قسم طب وجراحة القم والأسنان

The National University Faculty of Medical of Medical Science Department of Dentistry

Bachelor of Dental Surgery

(BDS) program

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