

# Important Contacts

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## Vision

To be a leading institution in dental education, research and patient care.

## Mission

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 will provide leadership to the health professions and the community.

## Objectives

The objectives of the Faculty of Dentistry are:-

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.
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:
  - a. Dentistry
  - b. 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. To 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. To generate knowledge and understanding of the scientific basics of modern dentistry, through excellence in research-informed teaching and continuous efforts to improve quality.
6. To provide an academic and clinical environment for the progressive development of all the disciplines within the Faculty.



Jordan University of Science and Technology  
Faculty of Dentistry

**Bachelor Degree of Dental Surgery (BDS) Program**

CIS 100 <sup>(3)</sup>	Computer Skills	3	
MS100 <sup>(4)</sup>	Military Sciences	3	
Total		16	

- (1) Previous Requirement: Pass in Eng 099 course or pass in English language level exam by a minimum grade of 50%.
- (2) Previous Requirement: Eng 111 course or passing English language level exam by a grade of not less than 80%. Students holding a certificate of Test of English as a Foreign Language™ (TOEFL) by a grade of 500 or more are exempted from ENG 111.
- (3) Students are exempted from studying this course in case of student's passing a computer level examination, producing an International Computer Driving Level (ICDL) or producing Cambridge International Diploma Certificate for information technology skills.
- (4) This course is required from Jordanian students only; graded on Pass/Fail basis. None Jordanian students may take a substitute course out of the elective courses list. In this case the course grade will be included in the calculation of student grade point average (GPA). According to «Resolution of Higher Education Council No. 1561 dated 22/6/1998 AD»: The military-officer students shall be exempted from studying this course without the need to take a substitute subject should the following conditions are fulfilled:
- Graduates of Mu'tah University, Royal Military College, Military Non-Commissioned Officers School or equivalent of foreign military colleges.
  - Officers who attended foundational non-commissioned officers' courses with respect to other ranks.
  - Accredited the University Education Department at the Directorate of Military Training to substantiate that the exemption conditions apply on the concerned student.

**Notice:** All non Arabic Speaking international students in the University are required to study a course in Arabic language as a substitute for the course Arb101 Arabic Language as shown below:

Course No.	Course Title	Credit Hours Theory	Prerequisite or Co-requisite
Arb 101A <sup>(5)</sup>	Fundamentals of Arabic Language (for non Arabic speaking students)	3	

A Bachelor Degree of Dental Surgery (BDS) at JUST is awarded according to the statute stated by JUST regulations for B.Sc. awardin issued by the Deans' Council based on the 1987 law for awarding scientific degrees and certifications at JUST.

The student should complete a sum of (213) credit hours successfully. These credit hours are distributed according to the following classification:

Nature of Requirements	No. of Compulsory CH	No. of Elective CH	Total
University Requirements	16	9	25
Basic Science Requirements (from Faculty of Science and Art and Faculty of Computer & IT)	16	-	16
Requirements from Faculty of Medicine	44	-	44
Requirements from the Faculty of Dentistry	128	-	128
<b>Total</b>	<b>204</b>	<b>9</b>	<b>213</b>

## University Requirements (25 Credit Hours)

### 1. Compulsory: (16 Credit Hours)

Course No.	Course Title	Credit Hours	Prerequisite or Co-requisite
Arabic 101	Arabic Language	3	
HS 100	Culture and University Behavior	1	
Eng 111 <sup>(1)</sup>	English Language	3	Pass Eng 099
Eng 112 <sup>(2)</sup>	Communication Skills II	3	Pass Eng 111

HSS 166	Man and Science	3	0	3	-
HSS 182	Studies on Women	3	0	3	-
HSS 250	Music History (in English)	3	0	3	-
HSS 211	Introduction to Sociology (in English)	3	0	3	-
HSS 212	Arab Society	3	0	3	-
HSS 213	Individual and Society	3	0	3	-
HSS 216	International Global Issues	3	0	3	-
HSS 221	Introduction to Psychology (in English)	3	0	3	-
HSS 222	Creativity and Problems Solving	3	0	3	-
HSS 224	Leadership and Communication Skills	3	0	3	-
HSS 231	History of Science in Islam	3	0	3	-
HSS 241	Economy in the Third World	3	0	3	-
HSS 242	Information and Research	3	0	3	-
HSS 429	Behavioral Science and Dealing with Children	3	0	3	-
ES 103	Environment Protection (for non Environment Sciences students)	3	0	3	-
NUR 100	Health Promotion (for non Medicine, non Nursing, and non Midwifery students)	3	0	3	-
PHAR 104	Drugs and Medical Plants (for non Medicine and non Pharmacy students)	3	0	3	-
PH 104	Community Health and Nutrition (for non Medicine, non Nursing, and non Midwifery students)	3	0	3	-
PH 200	First Aid and Emergency Procedure (for non Medicine, non Nursing, and non Midwifery students)	3	0	3	-

(5) Foreign students who hold foreign nationality may study the course Arb 101A. Students who completed their study in Arab schools are excluded, they shall study, irrespective of their nationality, Arb 101 which is studied by Jordanian and Arab students.

## 2. Elective courses: (9) credit hours assigned for them divided as follows

Course No.	Course Title	Credit Hours			Prerequisite or Co-requisite
		Theoretical	Lab	Total	
HSS 112	Hadith Shareef	3	0	3	-
HSS 113	Aqideh	3	0	3	-
HS 114	Fekeh	3	0	3	-
HSS 115	Islam and Recent Problems	3	0	3	-
HSS 116	Islamic Economy System	3	0	3	-
HSS 121	Principles of Sociology	3	0	3	-
HSS 126	Principles of Psychology	3	0	3	-
HSS 127	Educational Technology	3	0	3	-
HSS 128	National Education	3	0	3	-
HSS 131	Islamic Civilization	3	0	3	-
HSS 132	The History of the City of Jerusalem	3	0	3	-
HSS 133	Civilization and Recent Cultures	3	0	3	-
HSS 141	Introduction to Economics (for non CIS students)	3	0	3	-
HSS 142	Library and Information Research	3	0	3	-
HSS 151	Introduction to Management Sciences (for non CIS students)	3	0	3	-
HSS 161	Contemporary Problems	3	0	3	-

## C. Faculty requirements from the Faculty of Computer & Information Technology (3 Credit Hours)

Course No.	Course Title	Credit Hours			Prerequisite
		Total	Theory	Practical	
CS 116	Visual Basic	3	2	1	CIs 100
Total		3	2	1	

## D. Faculty requirements from the Faculty of Medicine (44 Credit Hours)

Course No.	Course Title	Credit Hours			Prerequisite or Co-requisite
		Total	Theory	Practical	
Chem 262	Biochemistry	3	3	0	
Chem 266	Biochemistry Lab	1	0	1	
Med 211A	Molecular Genetics	3	3	0	
Med 215A	General Anatomy & Embryology	3	3	0	
Med 215B	General Anatomy & Embryology Lab	1	0	1	
Med 216	General Histology	4	3	1	
Med 217A	Head and Neck Anatomy	3	3	0	
Med 217B	Head and Neck Anatomy Lab	1	0	1	
Med 230A	Human Physiology	3	3	0	
Med 230B	Human physiology lab	1	0	1	
Med 231	General Pathology	3	2	1	



PT 100	Health and Life Styles (for non physical therapy students)	3	0	3	-
VM 211	Animal Health ( for non Veterinary Medicine and non Agriculture students)	3	0	3	-
VM 212	Pet Animal Care (for non VM and Agriculture students)	3	0	3	-
NR 200	Natural Resources and Human Being	3	0	3	-
ME 211	Fundamentals of Automobile Engineering (for non ME students)	3	0	3	-
PP 200	Home Gardens (for non Agriculture students)	3	0	3	-
PP 201	Bee Keeping (for non Agriculture students)	3	0	3	-

## B. Faculty requirements from the Faculty of Science and Arts (13 Credit Hours)

Course No.	Course Title	Credit Hours			Prerequisite or Co-requisite
		Total	Theory	Practical	
Bio 103	General Biology	3	3	0	
Bio 107	General Biology Practical	1	-	1	Bio 103
Phy 103	General Physics	3	3	0	
Chem 103	General Chemistry	3	3	0	
Chem 217	Organic Chemistry	3	3	0	Chem 103
Total		13	12	1	

Dent 325	Oral Radiology 1	1	1	0	
Dent 335	Conservative Dentistry 1	4	1	3	
Dent 336	Conservative Dentistry 2	4	1	3	
Dent 337	Conservative Dentistry 3	1	1	0	
Dent 343	Removable Prosthodontics 1	4	1	3	
Dent 344	Removable Prosthodontics 2	4	1	3	
Dent 345	Removable Prosthodontics 3	1	1	0	
Dent 355	Oral Pathology 1	3	2	1	
Dent 356	Oral Pathology 2	3	2	1	
Dent 361	Paediatric Dentistry 1	1	1	0	
Dent 371	Periodontology 1	1	1	0	
Dent 381	Oral Surgery & Anaesthesia	1	1	0	
Dent 412	Preventive Dentistry	2	2	0	
Dent 413	Research Project	2	0	2	
Dent 423	Oral Diagnosis 1	2	1	1	
Dent 424	Oral Diagnosis 2	1	0	1	
Dent 425	Oral Radiology 2	2	1	1	
Dent 434	Crown and Bridge work	1	1	0	
Dent 437	Conservative Dentistry 4	4	1	3	
Dent 438	Conservative Dentistry 5	2	0	2	
Dent 439	Conservative Dentistry 6	3	0	3	
Dent 445	Removable Prosthodontics 4	3	1	2	

Med 232	Immunology	3	3	0	
Med 265	General Microbiology	3	2	1	
Med 351	General Pharmacology	3	3	0	
Med 372	Pathophysiology	3	3	0	
Med 373	General Internal Medicine	2	2	0	
Med 374	General Surgery & Anaesthesia	2	2	0	
Med 391	Biostatistics	2	2	0	
<b>Total</b>		<b>44</b>	<b>37</b>	<b>7</b>	

## E. Faculty requirements from the Faculty of Dentistry (128 Credit Hours)

Course No.	Course Title	Credit Hours			Prerequisite or Co-requisite
		Total	Theory	Practical	
Dent 101	Introduction to Dentistry	2	2	0	
Dent 202	Dental Anatomy and Occlusion	3	1	2	
Dent 203	Dental Materials 1	2	1	1	
Dent 206	Oral Histology	3	2	1	
Dent 207	Oral Physiology	1	1	0	
Dent 211	Cariology	1	1	0	
Dent 303	Dental Ethics and Jurisprudence	1	1	0	
Dent 305	Dental Materials 2	2	2	0	
Dent 311	Oral Epidemiology	1	1	0	
Dent 313	Research Method	1	1	0	

Dent 536	Conservative Dentistry 8	3	0	3	
Dent 545	Removable Prosthodontics 7	3	1	2	
Dent 546	Removable Prosthodontics 8	3	0	3	
Dent 555	Oral Medicine 2	2	1	1	
Dent 556	Oral Medicine 3	1	0	1	
Dent 565	Paediatric Dentistry 5	2	1	1	
Dent 566	Paediatric Dentistry 6	2	0	2	
Dent 575	Periodontology 5	2	1	1	
Dent 576	Periodontology 6	2	0	2	
Dent 585	Oral and Maxillofacial Surgery 1	2	1	1	
Dent 586	Oral and Maxillofacial Surgery 2	2	1	1	
Dent 595	Orthodontics 4	1	0	1	
Dent 596	Orthodontics 5	1	0	1	
<b>Total</b>		<b>128</b>	<b>52</b>	<b>76</b>	

Dent 446	Removable Prosthodontics 5	3	0	3	
Dent 447	Removable Prosthodontics 6	1	0	1	
Dent 451	Oral Medicine 1	2	1	1	
Dent 461	Paediatric Dentistry 2	2	1	1	
Dent 462	Paediatric Dentistry 3	2	1	1	
Dent 465	Paediatric Dentistry 4	1	0	1	
Dent 471	Periodontology 2	2	1	1	
Dent 472	Periodontology 3	2	1	1	
Dent 475	Periodontology 4	1	0	1	
Dent 481	Oral Surgery 1	2	1	1	
Dent 482	Oral Surgery 2	2	1	1	
Dent 483	Oral Surgery 3	1	0	1	
Dent 491	Orthodontics 1	2	1	1	
Dent 492	Orthodontics 2	2	1	1	
Dent 493	Orthodontics 3	1	0	1	
Dent 517	Oral Implantology 1	1	1	0	
Dent 518	Oral Implantology 2	1	1	0	
Dent 521	Oral Radiology 3	1	0	1	
Dent 522	Oral Radiology 4	1	0	1	
Dent 523	Oral Diagnosis 3	1	0	1	
Dent 524	Oral Diagnosis 4	1	0	1	
Dent 535	Conservative Dentistry 7	3	1	2	

## Study Plan

### First year

#### First Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Arb 101	Arabic Language	3	3	-
Hss 100	Student culture & university behavior	1	-	1
Bio 103	General Biology	3	3	-
Bio 107	General Biology Practical	1	-	3
Chem 103	General Chemistry	3	3	-
Eng 111	English Language 1	3	3	-
Clis 100	Computer skills	3	2	3
<b>Total</b>		<b>17</b>	<b>14</b>	<b>7</b>

#### Second Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Phy 103	General Physics	3	3	-
Eng 112	Communication skills II	3	3	-
Chem 217	Organic Chemistry	3	3	-
CS 116	Selected Programming Languages	3	2	3
	University Elective	3	3	-
<b>Total</b>		<b>15</b>	<b>14</b>	<b>3</b>

## Continuous Courses at the Faculty of Dentistry\*

Course at 1 <sup>st</sup> Semester			Course at 2 <sup>nd</sup> Semester		
Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
Dent 423	Oral Diagnosis 1	2	Dent 424	Oral Diagnosis 2	1
Dent 437	Conservative Dentistry 4	4	Dent 438	Conservative Dentistry 5	2
Dent 445	Removable Prosthodontics 4	3	Dent 446	Removable Prosthodontics 5	3
Dent 461	Paediatric Dentistry 2	2	Dent 462	Paediatric Dentistry 3	2
Dent 471	Periodontology 2	2	Dent 472	Periodontology 3	2
Dent 481	Oral Surgery 1	2	Dent 482	Oral Surgery 2	2
Dent 491	Orthodontics 1	2	Dent 492	Orthodontics 2	2
Dent 517	Oral Implantology 1	1	Dent 518	Oral Implantology 2	1
Dent 445	Removable Prosthodontics 4	3	Dent 446	Removable Prosthodontics 5	3
Dent 555	Oral Medicine 2	2	Dent 556	Oral Medicine 3	1
Dent 565	Paediatric Dentistry 5	2	Dent 566	Paediatric Dentistry 6	2
Dent 575	Periodontology 5	2	Dent 576	Periodontology 6	2
Dent 585	Oral and Maxillofacial Surgery 1	2	Dent 586	Oral and Maxillofacial Surgery 2	2
Dent 595	Orthodontics 4	1	Dent 596	Orthodontics 5	1

\* The Grade for the continuous course is given at the end of the second semester after an exam that covers the material for both the first and second semesters.

## Second Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Med 217A	Head and Neck Anatomy	3	3	-
Med 217B	Head and Neck Anatomy Lab	1	-	3
Med 265	General Microbiology	3	2	3
Med 372	Pathophysiology	3	3	-
Dent 202	Dental Anatomy and Occlusion	3	1	4
Dent 206	Oral Histology	3	2	3
Dent 207	Oral Physiology	1	1	-
Dent 211	Cariology	1	1	-
<b>Total</b>		<b>18</b>	<b>13</b>	<b>13</b>

## Summer semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Dent 203	Dental Materials 1	2	1	2
Med 232	Immunology	3	3	-
	University Elective	3	3	-
<b>Total</b>		<b>8</b>	<b>7</b>	<b>2</b>



## Summer semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Dent 101	Introduction to Dentistry	2	2	-
Chem 262	Biochemistry	3	3	-
Chem 266	Biochemistry Lab	1	-	3
MS 100	Military Sciences	3	3	-
<b>Total</b>		<b>9</b>	<b>8</b>	<b>3</b>

## Second year

### First Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Med 211A	Molecular Genetics	3	3	-
Med 215A	General Anatomy & Embryology	3	3	-
Med 215B	General Anatomy & Embryology Lab	1	-	3
Med 230A	Human Physiology	3	3	-
Med 230B	Human physiology lab	1	-	3
Med 216	General Histology	4	3	3
Med 231	General Pathology	3	2	3
<b>Total</b>		<b>18</b>	<b>14</b>	<b>12</b>

## Summer semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
Dent 303	Dental Ethics and Jurisprudence	1	1	-
Dent 337	Conservative Dentistry 3	1	1	-
Dent 345	Removable Prosthodontics 3	1	1	-
Dent 361	Paediatric Dentistry 1	1	1	-
Dent 371	Periodontology 1	1	1	-
Dent 381	Oral Surgery & Anaesthesia	1	1	-
	University Elective	3	3	-
<b>Total</b>		<b>9</b>	<b>9</b>	<b>-</b>

## Fourth year

### First Semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
*Dent 423	Oral Diagnosis 1	2	1	2
Dent 425	Oral Radiology 2	2	1	2
*Dent 437	Conservative Dentistry 4	4	1	6
*Dent 445	Removable Prosthodontics 4	3	1	4
*Dent 461	Paediatric Dentistry 2	2	1	2
*Dent 471	Periodontology 2	2	1	2
*Dent 481	Oral Surgery 1	2	1	2
*Dent 491	Orthodontics 1	2	1	2
<b>Total</b>		<b>19</b>	<b>8</b>	<b>22</b>

## Third year

### First Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Dent 305	Dental Materials 2	2	2	-
Dent 311	Oral Epidemiology	1	1	-
Dent 335	Conservative Dentistry 1	4	1	6
Dent 343	Removable Prosthodontics 1	4	1	6
Dent 355	Oral Pathology 1	3	2	2
Med 351	General Pharmacology	3	3	-
Dent 313	Research Method	1	1	-
<b>Total</b>		<b>18</b>	<b>11</b>	<b>14</b>

### Second Semester

Course	Course Title	Credit Hours		
		Total	Theory	Practical
Med 391	Biostatistics	2	2	-
Dent 325	Oral Radiology 1	1	1	-
Dent 336	Conservative Dentistry 2	4	1	6
Dent 344	Removable Prosthodontics 2	4	1	6
Dent 356	Oral Pathology 2	3	2	2
Med 373	General Internal Medicine	2	2	-
Med 374	General Surgery & Anaesthesia	2	2	-
<b>Total</b>		<b>18</b>	<b>11</b>	<b>14</b>

## Fifth year

## First Semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
*Dent 517	Oral Implantology 1	1	1	-
*Dent 521	Oral Radiology 3	1	-	2
*Dent 523	Oral Diagnosis 3	1	-	2
*Dent 535	Conservative Dentistry 7	3	1	4
*Dent 545	Removable Prosthodontics 7	3	1	4
*Dent 555	Oral Medicine 2	2	1	2
*Dent 565	Paediatric Dentistry 5	2	1	2
*Dent 575	Periodontology 5	2	1	2
*Dent 585	Oral and Maxillofacial Surgery 1	2	1	2
*Dent 595	Orthodontics 4	1	-	2
<b>Total</b>		<b>18</b>	<b>7</b>	<b>22</b>

## Second Semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
Dent 412	Preventive Dentistry	2	2	-
*Dent 424	Oral Diagnosis 2	1	-	2
Dent 434	Crown and Bridge work	1	1	-
*Dent 438	Conservative Dentistry 5	2	-	4
*Dent 446	Removable Prosthodontics 5	3	-	6
Dent 451	Oral Medicine 1	2	1	2
*Dent 462	Paediatric Dentistry 3	2	1	2
*Dent 482	Oral Surgery 2	2	1	2
*Dent 492	Orthodontics 2	2	1	2
<b>Total</b>		<b>19</b>	<b>8</b>	<b>22</b>

## Summer semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
Dent 413	Rresearch Project	2	-	4
Dent 439	Conservative Dentistry 6	3	-	6
Dent 447	Removable Prosthodontics 6	1	-	2
Dent 465	Paediatric Dentistry 4	1	-	2
Dent 475	Periodontology 4	1	-	2
Dent 483	Oral Surgery 3	1	-	2
Dent 493	Orthodontics 3	1	-	2
<b>Total</b>		<b>10</b>	<b>-</b>	<b>20</b>

## DENT 101 Introduction to Dentistry 2 C.H. (2 theory)

This course is designed to introduce students to the profession of dentistry and its relation and interaction with the community. It includes general definitions for the different specialties and fields of dentistry. Students will have brief information about all aspects of dental sciences. Also the students will be introduced to some dental terminology which will help her/him in studying more advanced courses in the next semesters.

## DENT 202 Dental Anatomy and Occlusion 3 C.H. (1 theory 2 practical)

This course is designed to cover detailed dental macroscopic anatomy and the basic principles of dental occlusion. The course has two components, lectures and corresponding practical training in laboratories. The lecture topics cover the dental notation systems and chronology of development of teeth, the detailed anatomy of the permanent and deciduous teeth, the anatomy of pulp canals (internal morphology of teeth) and an introduction to the fundamentals of dental occlusion. The practical sessions focus on developing the skills of carving different teeth out of wax blocks, practice on dental notation, age determination from teeth, teeth interaction in occlusion as well as the skills of tooth identification.

## DENT 203 Dental Materials 1 2 C.H. (1 theory 1 practical)

This course is designed to introduce students to the science of dental materials used in the dental procedures. It provides students with the basics of dental materials science including composition, chemical, physical, mechanical and surface properties, handling characteristics of the materials and their biocompatibility. The specific topics include gypsum products, investments, cements, waxes, and impression materials. The practical part of the course provides direct and practical hands on experience with the materials taught in the theoretical part of the course.

## DENT 206 Oral Histology 3 C.H. (2 theory 1 practical)

The course has two components, a didactic and a practical part. The lecture topics cover the relevant orofacial embryology, the different stages of odontogenesis, details of tooth structure and its supporting tissues as well as the oral tissues and adjoining structures. During each practical session, students should examine slides of the oral and dental tissues covered in the corresponding lectures.

## Second semester

Course	Course Title	Credit Hours		
		Total	Theory	Clinical
*Dent 518	Oral Implantology 2	1	1	-
*Dent 522	Oral Radiology 4	1	-	2
Dent 524	Oral Diagnosis 4	1	-	2
*Dent 536	Conservative Dentistry 8	3	-	6
*Dent 546	Removable Prosthodontics 8	3	-	6
*Dent 556	Oral Medicine 3	1	-	2
*Dent 566	Paediatric Dentistry 6	2	-	4
*Dent 576	Periodontology 6	2	-	4
*Dent 586	Oral and Maxillofacial Surgery 2	2	1	2
*Dent 596	Orthodontics 5	1	-	2
<b>Total</b>		<b>17</b>		<b>30</b>

\* Continuous Courses

## DENT 313 Research Methods 1 C.H. (1 theory)

This course is designed to bring students to the current knowledge in research design in dentistry. It will provide knowledge in the basic principles of sampling, statistics and research design, abnormality (clinical measurements, validity, reliability and criteria for abnormality), diagnosis (sensitivity, specificity and predictive values), risk (risk factors and study of risks), frequency (measuring prevalence and incidence and bias) and clinical trials.

## DENT 325 Oral Radiology 1 1 C.H. (1 theory)

This theoretical course is designed to introduce the students to the fundamentals of X-ray generation and its physics, radiation protection and the different radiological techniques used in dentistry. It should provide the students with the knowledge of the principles and practice of intra-oral radiography and the radiological appearance of normal tissues.

## DENT 335 Conservative Dentistry 1 4 C.H. (1 theory 3 practical)

This preclinical course includes a theoretical and practical component. The theoretical component is designed to give the third year students basic cognitive knowledge of the principals, terminology, instruments, materials and techniques utilized in the practice of Operative Dentistry. The practical component provides the student with the initial experience in the application of restorative procedures for managing the carious process on phantom heads. The student should perform a series of clinical exercises utilizing current instrumentation, materials, and techniques.

## DENT 336 Conservative Dentistry 2 4 C.H. (1 theory 3 practical)

Lectures and laboratory exercises include the basic theory and practice of endodontic therapy. Topics include pulp canal anatomy and the techniques, materials and instruments used to clean, shape, and obturate root-canal spaces.

## DENT 335 Conservative Dentistry 1 4 C.H. (1 theory 3 practical)

The course will introduce the students to the clinical aspects related to conservative dentistry. The students should learn patients' examination, make diagnoses and design a treatment plan. Students will also receive training on how to operate the dental units and use dental materials in a clinical setting. Dental examinations for the purpose of Endodontic treatment and isolation procedures will also be learnt.



## DENT 207 Oral Physiology 1 C.H. (1 theory)

This course is designed to provide the students with the needed knowledge in oral physiology needed to be applied at a later stage during their clinical training. The lecture topics include saliva, mechanisms of taste and olfaction, nociception, mechanosensation, dynamics of mastication and swallowing, mechanism of speech, calcification, dynamics of temporomandibular joint and occlusion and some applied comparative orofacial physiology in addition to sensory physiology and pain, motor neurophysiology and the control of mandibular movement, and healing of oral structures.

## DENT 211 Cariology 1 C.H. (1 theory)

This course is designed to bring students to the current knowledge in the following topics: Introduction to dental caries, classification, etiology, microbiology, and epidemiology of dental caries. This course also covers sugar substitutes, saliva and dental caries, dental plaque, and diet nutrition and dental caries.

## DENT 303 Dental Ethics and Jurisprudence 1 C.H. (1 theory)

This course focuses on the ethical and legal obligations of the dentists to the community and public they serve.

## DENT 305 Dental Materials 2 2 C.H. (2 theory)

This course is a continuation of the previous course (Dent 203). It offers a perspective on the advancements in newly developed materials or improvements to those currently in use. It provides the necessary tools and principles of dental materials that are currently used in clinical dentistry and covers the underlying principles of their functional properties, bioactivity and biocompatibility. This includes the main dental materials used in conservative dentistry, removable and fixed prosthesis materials and preventive dentistry such as amalgam, composites, glass ionomer, adhesive systems and cements, metals and alloys, ceramics, investment and refractory dies, endodontic and bleaching materials and implant materials.

## DENT 311 Oral Epidemiology 1 C.H. (1 theory)

This course is designed to provide students with the current knowledge in oral epidemiology. This includes concepts, terms and approaches used in epidemiology, epidemiological measures and indices relevant to oral health, measurements of population health methodological consideration, measurement of dental caries, periodontal disease as well as other dental diseases and conditions. This course will also provide information about distribution of epidemiology of oral and dental diseases such as tooth loss, dental caries, periodontal disease, and oral cancer.

## DENT 361 Paediatric Dentistry 1 1 C.H. (1 theory)

This course is designed to introduce students to the scope of paediatric dentistry. The lectures cover basic topics in pediatric dentistry including clinical examination, diagnosis and treatment planning of dental problems in children, common oral problems in children and theories of occlusal development.

## DENT 371 Periodontology 1 1 C.H. (1 theory)

This course is designed to introduce the dental student to the subject of periodontology. It offers a review of the anatomy, histology, and physiology of these tissues, information on etiology and pathogenesis of periodontal disease. Students will be introduced to methods of detection and control charting and data collection.

## DENT 381 Oral Surgery and Anaesthesia 1 C.H. (1 theory)

This Course is designed to introduce the students to the general principles of oral surgery. It provides the basic knowledge and practice of local anesthesia in dentistry. Furthermore the course will thoroughly teach the theoretical and practical aspects of exodontia.

## DENT 412 Preventive Dentistry 2 C.H. (2 theory)

This course is designed to bring students to the current knowledge in prevention of dental diseases. It will examine the public health methods for the prevention and control of dental caries, periodontal disease, dental trauma, malocclusion and oral mucosal lesions with an emphasis on the use of fluoride in prevention of dental caries. This course will have a chapter on restricting the use of tobacco as well as evidence based dentistry.

## DENT 413 Research Project 2 C.H. (2 practical)

This course is designed to prepare students to apply the knowledge and skills they gain from Dent 313: Research methods. The students in this course are required to choose a hypothesis and test it through a small pilot research project. The students are required to present their term paper then submit it for evaluation. The term paper should include all elements of research paper (Abstract, literature review, material and methods, result, discussion and conclusion).

## DENT 343 Removable Prosthodontics 1 4 C.H. (1 theory 3 practical)

This is a preclinical course -composed of theoretical and practical components- designed to introduce students to rehabilitation of edentulous patients using complete dentures. The didactic part covers the theoretical chairside and laboratory procedures of complete denture production. The practical component will provide the students with the skill and the understanding of laboratory procedures required for construction of the complete denture prosthesis. A series of exercises are conducted to prepare the student for the clinical phase of managing edentulous patients.

## DENT 344 Removable Prosthodontics 2 4 C.H. (1 theory 3 practical)

This pre-clinical course will introduce the students to theoretical background of managing partially edentulous patients and the laboratory steps for removable partial denture production. It will also introduce the students to the classification of edentulous ridges and partial denture types and designs. It also provides hand on training on the various steps involved in the fabrication of removable partial dentures.

## DENT 345 Removable Prosthodontics 3 1 C.H. (1 theory)

This course will introduce students to the clinical aspects of Removable prosthodontics. The students will carry out various clinical procedures, including patient's examination, diagnosis, treatment planning, impression making, occlusal assessment and all the laboratory steps that are relevant to the associating clinical steps.

## DENT 355 Oral Pathology 1 3 C.H. (2 theory 1 practical)

The course introduces the dental students to basic knowledge of diseases in the oral and maxillofacial region, including diseases of teeth, bone, soft tissue, and salivary gland tissue.

## DENT 356 Oral Pathology 2 3 C.H. (2 theory 1 practical)

This course includes two components; a theoretical and a practical one. The theoretical part introduces dental students to basic knowledge in the following subjects: developmental disturbances of the oral region, cysts of the oral region, infections of teeth and bone, bone lesions, odontogenic tumors and epithelial disorders. The practical part will include a full description of histological features of each disease.

## DENT 438 Conservative Dentistry 5 2 C.H. (2 clinical)

This is clinical course is a continuation of Dent 437. It provides the student with intensive clinical training in operative dentistry including amalgam, composite and glass-ionomer fillings in addition to root canal therapy for a single-rooted tooth.

## DENT 439 Conservative Dentistry 6 3 C.H. (3 clinical)

This clinical course is a continuation for the previous courses in conservative dentistry (Dent 437 and Dent 438) in which student will gain more clinical skills in operative dentistry. It is also

## DENT 445 Removable Prosthodontics 4 3 C.H. (1 theory 2 clinical)

The course is designed to provide students with more knowledge of the clinical aspects of prosthodontics. It concentrates on the assessment, diagnosis and treatment planning of patients in need for complete or removable partial dentures, managing complaints and complications, oral pathological conditions related to complete dentures, overdentures, relining, rebasing, and repairs of removable prostheses, copy dentures and immediate complete dentures.

## DENT 446 Removable Prosthodontics 5 3 C.H. (3 clinical)

This course is a continuation of Dent 445 course. It is composed of clinical part only in which the students should utilize the knowledge obtained from the theoretical part of Dent 445.

## DENT 447 Removable Prosthodontics 6 1 C.H. (1 clinical)

This course is considered as a continuation of the previous courses (Dent 445,446). It is designed to provide students with the basic principles of different types of occlusal splints and their repair.

## DENT 451 Oral Medicine 1 2 C.H. (1 theory 1 clinical)

This course provides the basic knowledge required for building a systematic approach to the management of patients with dental, oral and paraoral conditions. The lecture topics cover the medical management of inflammatory and infectious diseases, oral ulcerations, benign over-growth, diseases of paraoral structures, mucocutaneous diseases, connective tissue disorders, gastrointestinal diseases, immunodeficiency, hypersensitivity, autoimmunity and oral reactions to drug therapy.

## DENT 423 Oral Diagnoses 1 2 C.H.

(1 theory 1 clinical)

This course is part of a long course; it has a theory part (lectures) and a clinical one. The didactic part includes history taking, charting symbols, applied anatomy, intra oral examination, teeth examination, diagnostic tests, guidelines for prescribing radiographs, diagnosis of dental pain, diagnosis of ulcers, diagnosis of white lesions, and diagnosis of head and neck swellings. The clinical part is constructed to teach students the skills of history taking, extra and intra oral examination, charting, radiographic examination and establishment of a diagnosis.

## DENT 424 Oral Diagnoses 2 1 C.H.

(1 clinical)

This course is a continuation of Dent 423 course. It is composed of clinical part only which applies the knowledge obtained from the theoretical part of Dent 423.

## DENT 425 Oral Radiology 2 2 C.H.

(1 theory 1 clinical)

The course is designed to provide the student a basic and practical account of the extra oral radiography. It focuses on the diagnosis of radiolucent and radiopaque lesions of the jaws, antral disease, trauma to the teeth and facial skeleton, disorders of the salivary glands, oral and perioral cysts, benign tumors, radiology of malignant tumors and dysplastic diseases. The clinical part includes training on paralleling technique, occlusal radiography, panoramic radiography, automatic processing, loading cassettes, troubleshooting and quality assurance.

## DENT 434 Crown and bridgework 1 C.H.

(1 theory)

This is a theory course designed to provide students with the essential information about fixed prostheses including treatment planning for crowns and bridges, biomechanics and configurations of fixed partial denture, principles of tooth preparation, preparation of full veneer crowns, restoration of extensively damaged teeth, temporary crowns and bridges, periodontal-restorative interface, impressions for fixed prosthodontics, occlusion and fixed prosthodontics, implant-supported fixed prostheses and resin-bonded bridges.

## DENT 437 Conservative Dentistry 4 4 C.H.

(1 theory 3 clinical)

This course is designated to provide the dental students with the basic knowledge on management of various clinical aspects in operative dentistry and endodontics. The course will also provide the students with fundamental knowledge of occlusion. The students are required to provide dental patients with fillings using different restorative materials and management of simple cases of endodontics.

## DENT 472 Periodontology 3 2 C.H. (1 theory 1 clinical)

This course is designed to provide knowledge in periodontology to the 4th year dental students. This course provides information about the rationale of periodontal therapy and how recent research considered periodontitis as a risk factor for some systemic diseases, chemotherapeutic agents in the treatment of periodontal diseases, periodontal therapy in female patients, interrelationship of periodontal disease with other disciplines in dentistry, and general principles of periodontal surgery. The clinical part of this course will allow the students to utilize the knowledge obtained from the theoretical part.

## DENT 475 Periodontology 4 1 C.H. (1 clinical)

This clinical course allows the student to gain further clinical practice and experience with different cases of periodontal diseases.

## DENT 481 Oral Surgery 1 2 C.H. (1 theory 1 clinical)

This course is designed to teach the detailed theoretical and practical aspects of Minor Oral Surgery executed under local anesthesia. The broad topic will include the preoperative management of patients with medical problems of relevance to minor oral surgery, basic surgical principles, the surgical extraction of teeth, the management of difficult extraction, the management of impacted teeth and surgical aids to orthodontics. The clinical part of this course will allow the students to utilize the knowledge obtained from the theoretical part.

## DENT 482 Oral Surgery 2 2 C.H. (1 theory 1 clinical)

This course is a continuation of Dent 481. The broad topic will include cysts of the jaws and surrounding soft tissues, the dental aspects of maxillary antrum, oro-facial infections, surgical aids to prosthetic dentistry, surgical aspects of implant dentistry, surgical aids to endodontics and surgery-pathology interrelationship.

## DENT 483 Oral Surgery 3 1 C.H. (1 clinical)

This course is a continuation of the two previous oral surgery courses (Dent 481, Dent 482) and it is a practical training in oral surgery.

## DENT 491 Orthodontics 1 2 C.H. (1 theory 1 practical)

This course has two components, theoretical and practical. The theoretical part will introduce the students to the rationale of orthodontic treatment, facial growth, development of normal occlusion, classification of malocclusion, aetiology of malocclusion, cephalometric analysis, extra and intra oral examination, histology and physiology of tooth movement, and interceptive orthodontics. The practical component is in the form of wire bending laboratory work which will provide the dental students with sufficient orthodontic technical experience to make retentive and active components of removable orthodontic appliances.

## DENT 461 Paediatric Dentistry 2 2 C.H. (1 theory 1 clinical)

This course has a theoretical and a clinical component. The theoretical component is in the form of lectures that cover basic topics in pediatric dentistry including preventive measures such as fissure sealants, preventive resin restorations and fluoride application. Additionally, this course covers the chemotherapeutic agents in pediatric dentistry, behavior management, intracoronal and extracoronal restorations, pulp therapy for primary and young permanent teeth, Early Childhood Caries and developmental dental anomalies. The clinical component is in the form of clinical training. The course is designed to provide guidance to begin delivery of competent oral health care for healthy children.

## DENT 462 Paediatric Dentistry 3 2 C.H. (1 theory 1 clinical)

This course consists of two components, theoretical and clinical. The theoretical component covers the aspects of pulp therapy, dental trauma, space management and the basics of dentistry for medically compromised children. The practical component will guide students through more elaborate operative techniques as well as behavior management of children through clinical sessions where students practice dentistry on children.

## DENT 465 Pediatric Dentistry 4 1 C.H. (1 clinical)

This course is offered in the summer semester and has only clinical component, where the students treat children suffering from dental caries and apply preventive programs.

## DENT 471 Periodontology 2 2 C.H. (1 theory 1 clinical)

This course is designed to provide knowledge in periodontology to the 2<sup>nd</sup> year dental students. This course aims at giving dental students review of the structure and function of periodontium, microbiological consideration and structure treatment plan with periodontal instrumentation. It also provides information on the diagnosis, treatment plan & prognosis of most common forms of periodontal diseases and emergencies, the basic concepts in periodontal disease pathology, the local and systemic predisposing factors, relation of traumatic occlusion and periodontium. The clinical part of this course aims to provide the dental student guidance, experience of different periodontal problems and the associated skills, knowledge which is necessary to practice clinical periodontology. Also understand the periodontal therapy as a part of comprehensive dental care and design a complete treatment plan.



## DENT 523 Oral Diagnosis 3 1 C.H. (1 clinical)

This is a practical course that teaches students skills of gathering, recording and evaluating information that contribute to identifying abnormalities of the head and neck region which relate to the patients total health. The purpose of obtaining this information is to establish a diagnosis from which a rational dental treatment plan can be formulated.

## DENT 524 Oral Diagnosis 4 1 C.H. (1 clinical)

This course is a continuation of Dent 523 in which the students should discuss more advanced cases than the previous course.

## DENT 535 Conservative Dentistry 7 3 C.H. (1 theory 2 clinical)

This extended course spans two semesters and aims to provide the final year dental student with the most updated knowledge in conservative dentistry. The course will cover the most recent concept in operative dentistry, endodontics, and crown- bridge work including endodontic failures, cracked teeth, vertical root fracture and retreatment, surgical endodontics, modern techniques in endodontics, root resorption, patient selection for fixed partial denture treatment, update on post-retained crowns and glass fiber-reinforced composite resin posts, all-ceramic restorations, management of discoloured teeth, and etiology, diagnosis and management of dentine hypersensitivity. The clinical component of this course will include treating advanced operative dental problems, root canal treatment for multi rooted teeth, post-crowns, and crown - bridge work.

## DENT 536 Conservative Dentistry 8 3 C.H. (3 clinical)

This is a conynous course to Dent 535 that aims to provide the final year dental student with the most updated knowledge in conservative dentistry. The course will cover the most recent concept in operative dentistry, endodontics, and crown- bridge work .including treating advance operative dentistry, root canal treatment for multi rooted teeth, post-crowns, and crown - bridge work.

## DENT 545 Removable Prosthodontics 7 3C.H. (1 theory 2 clinical)

This course concludes the last sequence of removable prosthodontic courses leading to a professional degree in dentistry. The theoretical component will allow the students to make decisions and choose the proper treatment option for the edentulous patients. It will also cover a review of retention mechanisms of complete dentures, single complete denture, overdentures, attachment in removable prosthodontics, occlusion for removable partial dentures, management of shortened dental arch, pre-prosthetic surgery, and maxillofacial prosthodontics.

Clinically, the student should make sound judgment independent of the instructor, they will treat patients need complete and partial dentures.



## DENT 492      Orthodontics 2    2 C.H. (1 theory      1 practical)

This course is a continuation of Dent 491. This course will provide the students with information about different types of orthodontic appliances, management of different skeletal and orthodontic problems, retention and stability, orthognathic surgery, and cleft lip and palate.

## DENT 493      Orthodontics 3    1 C.H. (1 clinical)

This course introduces the students to the orthodontic clinic. It will focus on diagnosis and treatment planning of the different types of malocclusion as well as the clinical management of removable orthodontic appliances.

## DENT 517      Oral Implantology 1    1 C.H. (1 theory)

This continuous course is designed to provide the graduating dental students with basic knowledge of the variable aspects of modern dental implantology including the rationale of dental implantology, history and development, bone biology, histology and physiology, osseointegration, biomaterials, surface modification of dental implants, biomechanics and variable designs of implants and implant components, surgical anatomy in relation to dental implants, and case selection for implant treatment.

## DENT 518      Oral Implantology 2    1 C.H. (1 theory)

This continuous course is a continuation of Dent 517. It will provide information about surgical and prosthodontic procedures in implant treatment, ridge preservation, immediate implants, management of patients with inadequate bone, implants in the partially and totally edentulous mouth, microbiology of dental implants, complications and failures of dental implants, and implants in immunocompromized patients and other systemic conditions.

## DENT 521      Oral Radiology 3    1 C.H. (1 clinical)

The emphasis in this course is the clinical application of the skills and knowledge acquired in previous courses. Students make and interpret radiographs of patients attending for diagnostic work-ups, as well as taking part in clinical radiologic conferences (CRCs).

## DENT 522      Oral Radiology 4    1 C.H. (1 clinical)

This course is a continuation of Dent 521 in which they should discuss more advanced cases than the previous course.

**DENT 575      Periodontology 5      2 C.H.**  
**(1 theory      1 clinical)**

This course is offered in the first semester of the fifth year consists of two components; theoretical and clinical. The theoretical part covers advanced methods of periodontal treatment modalities and techniques. It also includes genetic factors associated with periodontal diseases, guided tissue regeneration, smoking and periodontics, and patients' education and support. The clinical component includes in addition to treating various forms of periodontal diseases by conventional methods, some applications of more advanced techniques and surgical procedures.

**DENT 576      Periodontology 6      2 C.H.**  
**(2 clinical)**

This course offered in the second semester of the fifth is a clinical course where graduating students practice the clinical skills they have learned with emphasis on interdisciplinary treatment, it also represent a review of all the subjects covered previously.

**DENT 585      Oral and Maxillofacial Surgery 1      2 C.H.**  
**(1 theory      1 clinical)**

This course is designed to provide students with current theoretical knowledge in the fundamentals and basic principles of maxillofacial surgery including surgical management of facial fractures, maxillofacial deformities, and cleft lip and palate. The clinical part provides hands-on of exodontia and simple oral surgery.

**DENT 586      Oral and Maxillofacial Surgery 2      2 C.H.**  
**(1 theory      1 clinical)**

This course is a continuation of Dent 585. It is designed to provide the final year dental students with a basic knowledge about surgical management of TMJ, salivary glands and oral tumours. The course will also stress the importance of evaluating oral pathological lesions, especially those of potentially sinister outcome, and determination if a biopsy is needed. The clinical part provides hands-on of exodontia and simple oral surgery.

**DENT 595      Orthodontics 4      1 C.H.**  
**(1 clinical)**

This course has only a clinical component. It is offered on the first and second semester of the fifth year. The students will utilize the theoretical knowledge they gained during the fourth year in this course. The students will learn to do extra and intra oral examination from orthodontic point of view, collect and analyze orthodontic records including dental casts and radiographs, to build a problem list and proper diagnosis for orthodontic patients and finally come up with treatment planning for orthodontic problems. During this course the students will also execute orthodontic treatment for simple problems using removable, growth functional, and partial fixed orthodontic appliances.

**DENT 596      Orthodontics 5      1 C.H.**  
**(1 clinical)**

This course is a continuation of Dent 595 521 in which they should discuss more advanced cases than the previous course.

## DENT 546 Removable Prosthodontics 8 3 C.H. (3 clinical)

This course is a continuation of DENT 545. The main aim of this clinical course is to produce general dental practitioners that are competent to treat patients in need of different types of removable prosthetic reconstructions. At the end of this year each student should be able to handle a prosthetic case completely.

## DENT 555 Oral Medicine 2 2 C.H. (1 theory 1 clinical)

This course deals with all types of diseases and abnormalities that affect the oral lesion including oral pigmentation, carcinogenesis and precancerous lesions, oral carcinoma and management of oral cancer, teeth and bone disorders, diseases of lip and tongue, taste disturbances and halitosis, blood disorders and nutritional deficiencies, endocrine disturbances and renal diseases, facial pain and neurological disturbances, temporomandibular joint disorders, and psychogenic orofacial problems. In the clinical part, the student will be trained to achieve diagnosis of the diseases through a systematic approach including full examination and special tests, discussing all treatment options for each disease and etiology of these diseases. The manifestation of systemic diseases in the oral cavity will be also included in this course.

## DENT 556 Oral Medicine 3 1 C.H. (1 clinical)

This course is a continuation of Dent 555 521 in which they should discuss more advanced cases than the previous course.

## DENT 565 Paediatric Dentistry 5 2 C.H. (1 theory 1 clinical)

This course has two components, theoretical and clinical. The theoretical component is in the form of lectures that cover more advanced topics in pediatric dentistry including space management and space analysis, relative analgesia and advances in local anesthesia, advances in caries diagnosis and pre-eruptive lesions, dental erosion in children and adolescents, dental attrition and bruxism in children and adolescents, common oral medical problems, management of medical emergencies in the dental clinic, drug use and prescription in pediatric dentistry. The practical component is in the form of clinical sessions that students attend, and are responsible for treating patients according to a set of requirements.

## DENT 566 Paediatric Dentistry 6 2 C.H. (2 clinical)

These courses offered in the first and second semester of fifth year are entirely practical courses in the form of dental management of children in the clinics with emphasis on full comprehensive care for children including dental trauma cases