

1.	School	Dentistry
2.	Department	Conservative Dentistry
3.	Program title (Arabic)	ماجستير المعالجة اللبية السريري
4.	Program title (English)	Masters in Clinical Endodontics
5.	Track	Thesis track

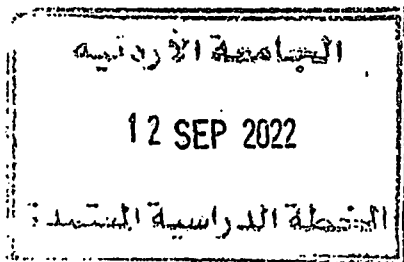
	Specialization #	Degree	Dep #	Faculty #	Year	Track
Plan Number		8	2	13	2022	Thesis

First: General Rules & Conditions:

1. This plan conforms to the regulations of the general framework of the programs of graduate studies at the University of Jordan.
2. Areas of specialty for admission to this program: Bachelor's in dental surgery (BDS) or Doctor of Dental Surgery (DDS)

Second: Special Conditions:

- Applicants should have at least 2year post-qualification experience in general dentistry that might include an Internship Training Program.
- Applicants should have obtained a license to practice Dentistry in Jordan granted by the Ministry of Health (permanent license or training license for Non -Jordanians).
- Applicants must have passed the FULL MFDS Examination administered by one of the Royal Colleges in the United Kingdom or Full American National Board Dental Examination (NBDE).



Third: Study Plan: Studying (42) Credit Hours as following:

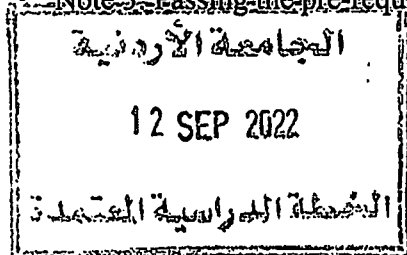
1. Obligatory Courses (24) Credit Hours:

Course no.	Course title	Pre-requisite	hours/ per week		Credit hours			Total
			Theory	Clinical	1st	2nd	summer	
1302707	Research methods and evidence-based practice	No prerequisite	3	-	-	3	-	3
13022701	*Endodontics I Theory	No prerequisite	1.5	-	1.5	1.5	-	3
1302702	*Endodontics I Clinical	No prerequisite	-	15	2.5	2.5	-	5
1302703	*Endodontics II Theory	Endodontics I Theory	1	-	1	1	-	2
1302704	*Endodontics II Clinical	Endodontics I Clinical	-	15	2.5	2.5	-	5
1302705	Endodontics III Theory	Endodontics II Theory	1	-	1	-	-	1
1302706	*Endodontics III Clinical	Endodontics II Clinical	-	15	2.5	2.5	-	5
1302710	Clinical training at JUH I		0	15	-	-	-	0
1302711	Clinical training at JUH II	Clinical training at JUH I	0	15	-	-	0	0
Total								24

* Extended course over the first and second semester

- Note 1: One clinical credit hour = minimum of 3 practical hours.
- Note 2: The minimum practical training is 15 hours / week

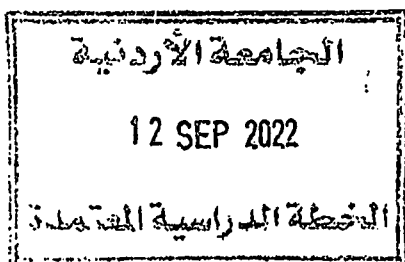
Note 3: Passing the pre-requisite clinical courses is mandatory



2. Elective Courses: Studying (9) Credit hours from the following:

Course No.	Course Title	Credit Hrs	Theory	Practical	Pre/Co-requisite
1302708	Occlusion and treatment of TMJ Disorders	1	1		No prerequisite
0703725	Statistical Methods for Health Care Research	3	3		No prerequisite
1303777	Radiology and Cephalometrics	1	1		No prerequisite
1302717	Biomaterials	2	2		No prerequisite
1304718	Dental Implantology	2	2		No prerequisite
1304725	Restorative and Periodontology Intervention	2	2		No prerequisite
1302724	Aesthetics Dentistry	2	2		No prerequisite
1301716	Dental Management of Medically Compromised Patients	2	2		No prerequisite
1302739	Current topics in prosthodontics and Implant Dentistry	1	1		No prerequisite
1303774	Preventive Dentistry	1	1		No prerequisite
0534722	Medical Genetics	3	3		No prerequisite
0533704	Clinical Pharmacology	3	3		No prerequisite

3. Thesis: (1302.....) 9 Credit hours.



Details of Study Plan
Thesis Track

Year 1

First Semester		Second Semester	
Course	Credits	Title	Credits
Endodontics theory I*	1.5	Endodontics theory I*	1.5
Endodontics clinical I*	2.5	Endodontics clinical I*	2.5
Statistical Methods for Health Care Research (Elective)	3	Research methods and evidence-based practice	3
		Biomaterials (Elective)	2
Total	7	Total	9
Summer Semester			
Course		Credits	
Clinical training at JUH I		0	
Total		0	

Year 2

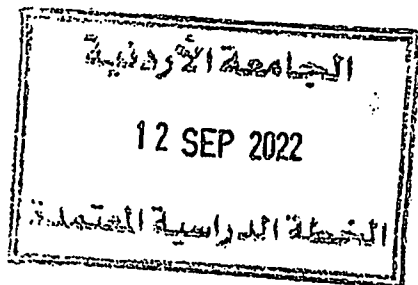
First Semester		Second Semester	
Course	Credits	Title	Credits
Endodontics theory II*	1	Endodontics theory II*	1
Endodontics clinical II*	2.5	Endodontics clinical II*	2.5
Restorative and Periodontology Intervention (Elective)	2	Thesis	3
Dental Implantology (Elective)	2		
Total	7.5	Total	6.5
Summer Semester			
Course		Credits	
Clinical training at JUH II		0	
Total		0	

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الخطة الدراسية المقترحة

Year 3

First Semester		Second Semester	
Course	Credits	Title	Credits
Endodontics theory III	1	Endodontics clinical III*	2.5
Endodontics clinical III*	2.5		
Thesis	3	Thesis	3
Total	6.5	Total	5.5



Course Description

1302701	Endodontics I Theory	3 credit hours
Prerequisite: none		
<p>This course enables students to gain knowledge of the complexity of root canal morphology and develop an understanding of contemporary aspects of endodontics including diagnosis of advanced endodontic challenges, interpretation of basic radiographic images, different techniques of canal instrumentation, irrigation protocols, intracanal medication and obturation. Furthermore, students will learn the basics of preventive endodontics and the concepts of vital pulp therapy and its clinical applications.</p>		
<p>The course will be given in the form of interactive discussion/ seminars with critical appraisal of the relevant literature.</p>		

1302703	Endodontics II Theory	2 credit hours
Prerequisite: Endodontics I Theory		
<p>This course aims at building a basic understanding of the pathology and immunology of pulpal and peri-radicular diseases. The course is intended to provide students with detailed knowledge about the methods and techniques of managing and devising strategies for the successful treatment of advanced endodontic problems including non-surgical retreatment, post removal, peri-radicular surgery and other surgical endodontic procedures such as intentional replantation and root resection. Furthermore, the course will cover the concepts, indications and applications of advanced endodontic imaging such as cone-beam computed tomography (CBCT).</p>		
<p>The course will be given in the form of interactive discussion/ seminars with critical appraisal of the relevant literature.</p>		

1302705	Endodontics III Theory	1 credit hours
Prerequisite: Endodontics II Theory		
<p>This course aims to enable students to understand the concepts of interdisciplinary dentistry and be able to work with specialists from different disciplines such as prosthodontics, pediatric dentistry, periodontics, orthodontics and oral medicine. The students will be exposed to advanced endodontic materials and techniques, surgical endodontics, causes and retreatment of failed cases. Furthermore, students will be introduced to the latest innovations in endodontics which will be updated on an annual basis.</p>		
<p>The course will be given in the form of interactive discussion/ seminars with critical appraisal of the relevant literature.</p>		

1302702	Endodontics Clinical I	5 credit hours
Prerequisite: none		
<p>Students will acquire competence in the differential diagnosis of pulpal and periapical pathosis, in addition to designing and providing comprehensive treatment plans for patients with a wide range of endodontic diseases with emphasis on primary endodontic treatment. They will clinically apply the concepts and knowledge acquired during the theory course. The clinical course will also provide the students with the opportunity to use advanced endodontic armamentarium such as the microscope and Cone beam (CBCT) imaging.</p>		

Students will perform various chemo-mechanical preparation techniques to treat peri-radicular disease and root canal treatment incorporating the principles of canal disinfection by appropriate use of intracanal medication. At the end of the course, student are expected to demonstrate competence at diagnosing and managing a wide range of endodontic challenges.

The course includes four weeks conducted in the laboratory to acquire preclinical skills.

1302704	Endodontics Clinical II	5 credit hours
Prerequisite: Endodontics Clinical I		
<p>This course provides students with the opportunity to manage advanced endodontic issues and select appropriate medication and obturation techniques for each individual case. During this course, the students will use rotary armamentarium with various root canal disinfection materials and devices. Students will select appropriate treatment modalities and provide complex treatment management options such as surgical endodontics, non-surgical retreatment and regenerative endodontics. Furthermore, students will be trained to perform advanced treatment planning and liaison with other specialties.</p>		

1302706	Endodontics Clinical III	5 credit hours
Prerequisite: Endodontics Clinical II		
<p>This course is an extension of the previous courses and will allow the students to provide complex endodontic treatment at a specialist level. Students will be expected to provide the basic restorative procedures for endodontically treated teeth and treat patients with special needs and who are medically compromised. They will perform various surgical endodontic procedures such as apicectomy and other treatment modalities for complex cases which require a multi-disciplinary team approach.</p> <p>Towards the end of the course, students are expected to demonstrate advanced skills and competence in diagnosing and managing complex endodontic challenges.</p>		

1302707	Research Methods and evidence-based practice	3 credit hours
Prerequisite: none		
<p>This course introduces students to research techniques and methodologies that can be applied throughout their practice settings. The course includes qualitative and quantitative research methods of finding evidence-based practice to help students make informed decisions in their clinical practice. The course describes the essentials of research ethics and the basics of good clinical practice. Analogous to these subjects the course illustrates the basis of academic writing essential to reading and writing scientific papers and elucidates fundamentals for dissertation thesis structure. The course trains postgraduate students to perform database mining, data collection and analysis using appropriate statistics. It will also include a systematic review training and an introduction to SPSS.</p>		

0703725	Statistical Methods for Health Care Research	3 credit hours
Prerequisite: none		
<p>The emphasis of this course is on the nature and characteristics of the most commonly used statistical techniques (descriptive statistics, correlation and linear regression, factor analysis, and elementary hypothesis testing), and their applicability to specific health care problems within the context of dentistry. Students will develop skills and knowledge in the use of computing software and to</p>		

reinforce learning through assignments, including the analysis of data and interpret computer output.

1302717	Biomaterials	2 credit hours
Prerequisite: none		
This course aims to improve knowledge in new materials used in clinical dentistry, their manipulation and uses in fixed and removable appliances prosthodontics maxillofacial prostheses and dental implants. In addition, laboratory studies on physical and chemical properties for these materials and their biocompatibility and effects on biological systems will be provided.		

1304718	Dental Implantology	2 credit hours
Prerequisite: none		
This course consists of theoretical and practical part. The theoretical part will consist of advanced and successful options in treating patients by dental implants supported partial fixed prostheses and implant-retained complete prostheses, in addition to patients with single missing tooth providing that there are no anatomical or psychological contra-indications. It also discusses all the basic principles of surgical and prosthetic aspects of implants, and complications.		

1302708	Occlusion and Treatment of TMJ Disorders	1 credit hours
Prerequisite: none		
This course describes the normal occlusion for permanent dentition, congenital anomalies, and evaluation of normal occlusion. In addition to theories of reconstruction of occlusion, types of articulators, reconstruction of occlusion using provisional restoration clinically as a temporary solution till the final reconstruction is made by permanent fixed prostheses. It also deals with problems of malocclusion and their relationship with TMJ, especially with mobile teeth, fillings, crowns, periodontal problems.		

1303777	Radiology and Cephalometrics	1 credit hour
Prerequisite: none		
This course provides a thorough understanding of cranio-facial radiographic techniques with emphasis on cone beam computed tomography (CBCT). This course is designed to acquaint the student with the use of X rays, radiation, pathology and CBCT techniques to assure proficiency in technical skills and in interpretation as needed for diagnostic procedures. This course includes both lecture and practical instructions.		

1304725	Restorative and Periodontology Intervention	2 credit hours
Prerequisite: none		
This course provides an understanding of the aetiology and development of periodontal diseases, diagnosis, methods of treatment, and the periodontal considerations in fixed and removable prosthodontics, biological concepts of crown lengthening, theories behind dentin hypersensitivity and its treatment and the role of occlusion in periodontal diseases.		

1301716	Dental Management of Medically Compromised Patients	2 credit hours
Prerequisite: none		
In this course the student will be familiar with the dental aspects of systemic diseases in terms of their effect on dental treatment and their effect on the oral hard and soft tissues. The student will also learn how drugs used in the treatment of these systemic diseases affect the oral health or complicate the dental management.		

1302724	Aesthetics Dentistry	2 credit hours
Prerequisite: none		
This course provides basic aesthetic considerations in operative dentistry, focuses on colour, discusses tooth coloured direct and indirect restorations, adhesion theories ,and adhesive restorations, treatment of discoloured teeth or teeth with anomalies by simple or complex interventions.		
0534722	Medical Genetics	3 credit hours
Prerequisite: none		
This course covers the study of chromosomes and heredity, genetic linkage, chemistry of the gene, mitosis and meiosis, gamete formation, mechanisms of transfer of genetic traits, genetic code and its transcription and translation, protein synthesis, mutations, genetic map, sex determination, sex-linked characteristics, human genetic disorders and their diagnosis and management, and genetic engineering.		
0533704	Clinical Pharmacology	3 credit hours
Prerequisite: none		
This course aims to describe the clinical application of drugs including patient treatment, studies of drug application and the steps of drug development. Recent advances in pharmacology particularly as related to the pediatric patient are discussed in this course.		
1302739	Current topics in Prosthodontics and Implant Dentistry	1 credit hour
Prerequisite: none		
The purpose of this course is to expose students to the most recently in Prosthodontics. Besides enabling students to read and criticize articles in a scientific manner.		
1303774	Preventive Dentistry	1 credit hour
Prerequisite: none		
This course focuses on the etiology, prevalence and prevention of dental caries using fluoride and other methods and the new technologies used in the diagnosis and treatment of dental caries. An evidence-based approach is emphasized.		
1302710	Clinical training at JUH 1	0 credit hours
Pre-request: None		
The course includes clinical training sessions at the JUH.		
1302711	Clinical training at JUH II	0 credit hours
Pre-request:: Clinical training at JUH I		
The course includes clinical training sessions at the JUH.		

