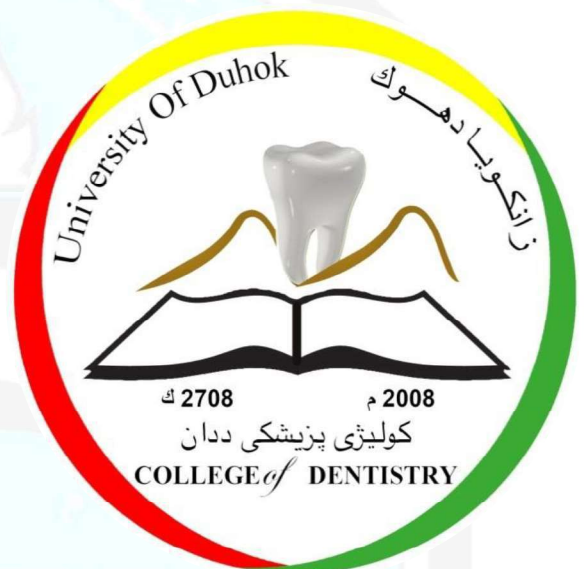


**Iraqi Kurdistan Region  
Council Of Ministers  
Ministry Of Higher Education and Sciences and Scientific Research  
University of Duhok  
College Of Dentistry**



# **CURRICULUM**

**2015-2016**

# Introduction

The curriculum has been designed and modified over the years to reflect the changing needs of the dental students and dental profession. Our goal is to develop dental practitioners who are able to utilize the basic principles of human biology and human behavior with their technical skills in diagnosing, treating, and preventing oral disease. On this basis, Duhok's College of Dentistry structured on four fundamental departments, they are the back-bone of the College. They are as follows:

- 1. Department of Oral and Maxillofacial Surgery, Periodontics and Oral Diagnostics:** This multidivisional department, the largest of all departments aims to direct students at leading both theoretical and practical aspects of Oral and Maxillofacial Surgery, Dental Implantology, Laser Applications in Dentistry, Periodontology, Oral Medicine, Oral Radiology, Oral pathology General pathology, General medicine, Oral Histology and General surgery Each division is a separate entity with a full staff of its own yet at the same time full co-operation between them is exceptional which all comes down to the total benefit of student and patient.
- 2. Department of Prosthodontics and Conservative Dentistry:** The department is that branch of dentistry pertaining to the restoration and maintenance of oral function, comfort, appearance, and health of the patient by the restoration of the natural teeth and/or the replacement of the missing teeth and contagious oral and maxillofacial tissues with artificial substitutes. This discipline includes removable fixed with attachment, maxillofacial implant prosthodontics, dental material operative dentistry, crown and bridge, and Endodontology which is given during five years curriculum. It also deals with the operations of developing the skills needed for BDS. Students are introduced to the basic principles in treating the partially and totally edentulous patient with removable dentures, focusing on understanding the physical and biochemical properties of the denture components, technical and scientific ways of treating cases in the field of restorative dentistry, crowns and bridges, root canals, etc.

**3. Department of Pedodontics, Orthodontics and Preventive Dentistry:**

The department provides courses about the concept of orthodontics, Pediatric and Preventive Dentistry. Topics related to physiology of stomatognathic systems of various malocclusions. The esthetic standards are taken into consideration throughout the teaching modules. Meanwhile, concerning Pediatric and Preventive Dentistry the department provide theoretical and practical leaning about different methods for prevention of oral diseases, improving oral hygiene and treatment of different caries lesions of primary and permanent teeth using different restorative materials, in addition, treatment of different traumatic teeth. It also deals with the operations of developing the skills needed for BDS and M.Sc. through applying the dental requirements for the course.

**4. Department of Dental Basic Sciences:** Dental sciences are included in this department as chemistry, biochemistry, biology, anatomy, physics, computer and microbiology. These courses cover the study of the constituents of the dental studies. The aim of these subjects is to provide the dental students with preclinical knowledge which help them to understand the clinical subjects.**STRATEGY AND AIMS:**

The evolution of biotechnology and biomedical sciences in general, together with new developments in the knowledge and technology of dental sciences has generated such a volume of new knowledge that it is practically impossible to maintain the currency of traditional curricula (i.e. where education is based on teaching independent subjects).

It has become evident that traditional curricula and traditional methodologies of teaching, e.g. those based upon lectures and acquisition of knowledge by rote, are not effective in the fostering of learning habits that instill a culture of self-directed learning, which is so necessary in the current knowledge society and especially for health care providers.

The solution lies in the introduction of flexibility in curricular models and in the need to integrate basic, medical and dental sciences both vertically and

horizontally. This should inspire students to become life-long learners and to continue the process of knowledge acquisition for evidence-based practice throughout their professional lives.

## **THE OPTIMUM CURRICULA**

To attempt to solve the problem of curricular overload, a core curriculum is proposed where content and competences that are fundamental to the accomplishment of the agreed professional profile and learning outcomes are defined. By providing a core curriculum plus a catalogue of dental electives all dental graduates should achieve a wide-ranging core of clinical education in order to allow them to meet the requirements for competence as established in the profile. At the same time, there should be some freedom to study diverse topics that will allow them to explore areas of particular interest in greater depth. Health professionals should engage in a broad academic education embracing topics beyond the field of dentistry to better understand their role in society.

## **PRIMARY RECOMMENDATIONS – CURRICULUM CONTENT**

1. The content of the dental curriculum should directly be related and contribute to the Profile and Competences for the Dentist.
2. College should ensure that the content of the curriculum is evidence based and reflects current best practice throughout the entire program.
3. Early contact between patients and dental students should take place. In particular, it is necessary in first or second-year dental students to have some contact with patients.
4. Effective infection control should be integral to all clinical activity
5. Integrated patient care should be a fundamental part of the clinical education
6. A research project should be an integral part of the dental curriculum.
7. Basic and biomedical subjects should be learned in an integrated manner.
8. Education including hands-on training in basic life support skills should be compulsory, repeated and assessed.

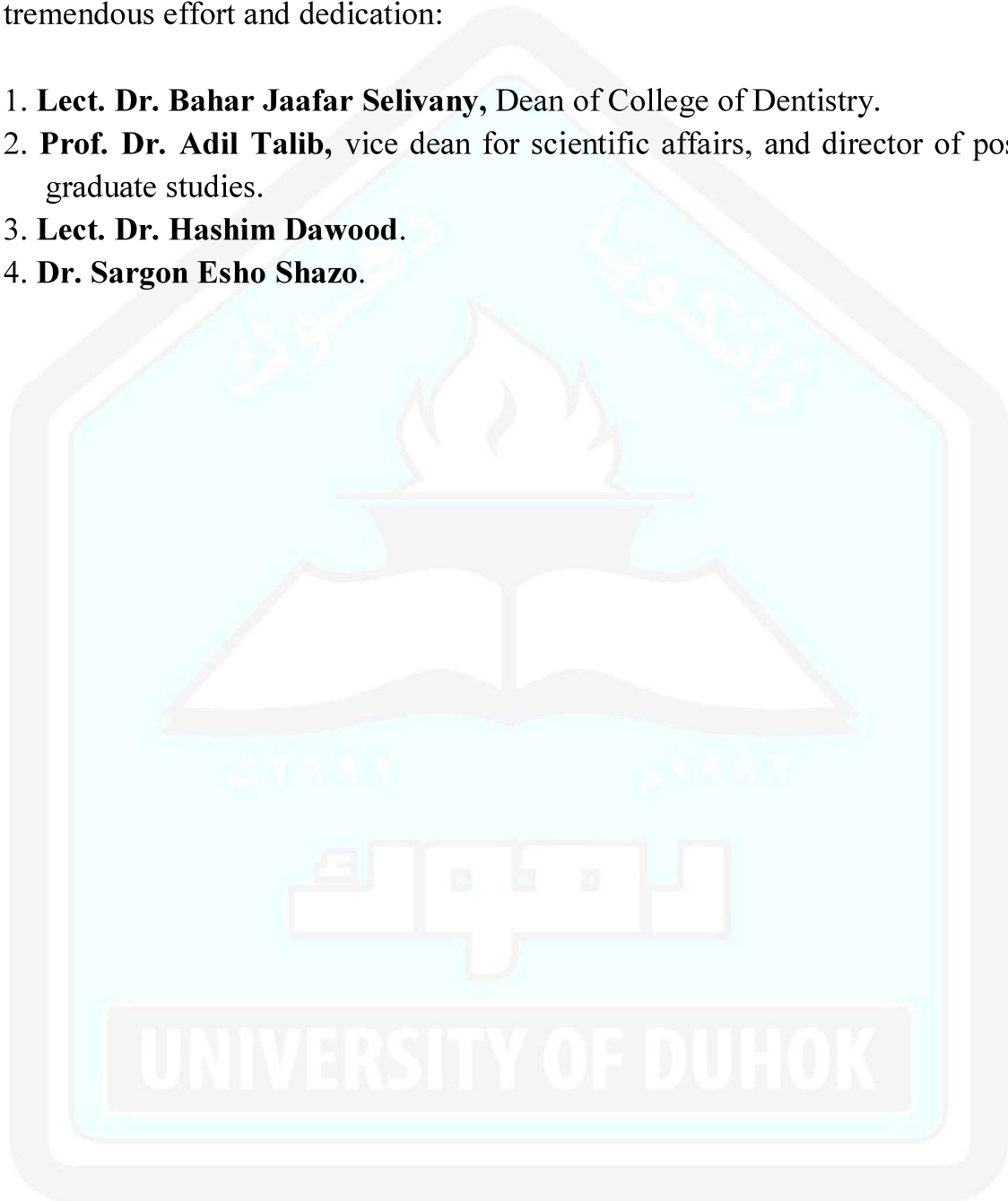
## **SECONDARY CONTENT RECOMMENDATIONS – CURRICULUM CONTENT**

- 1- The study of medical and other conditions that have relevance for dentists in their treatment of patients should be strengthened.
2. Education in the behavioral and social sciences is advocated in order to ensure that dentists communicate effectively with their patients, team members and other health professionals.
3. Education in dental public health, preventive and community dentistry is advocated
4. An integrated approach to education in ethics and professional conduct is recommended
5. Practice management, and information and computer technology (ICT) should be included in the curriculum
6. There should be increasing emphasis on team work with some elements of integration between the educational programs for the different dental team members
7. It is desirable that electives should form an integral part of the undergraduate Curriculum.

## **CRIDITS AND AKNOWLEDGMENTS:**

Great appreciation to the members of the curriculum committee for their tremendous effort and dedication:

1. **Lect. Dr. Bahar Jaafar Selivany**, Dean of College of Dentistry.
2. **Prof. Dr. Adil Talib**, vice dean for scientific affairs, and director of post graduate studies.
3. **Lect. Dr. Hashim Dawood.**
4. **Dr. Sargon Esho Shazo.**



## Notes:

- Teaching language is English
- All programs are yearly programs.
- Duration of study is five years:
  - a- 1<sup>st</sup> year: Basic Sciences
  - b- 2<sup>nd</sup> & 3<sup>rd</sup> year: Basic and preclinical science
  - c- 4<sup>th</sup> & 5<sup>th</sup> year: Clinical Science
- Summer training: Clinical training for
  - 1- 4 weeks – 3<sup>rd</sup> year students on basic emergency care, first aids, catheterization, and IV & IM injection techniques, at Duhok Teaching Emergency Hospital
  - 2- 4 weeks - 4<sup>th</sup> year students
  - 3- 4 weeks - 5<sup>th</sup> year students

<b>Total hours / Year</b>						
<b>Year</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>Total</b>
<b>Units</b>	40	36	44	44	47	211

## **FIRST YEAR CURRICULUM**

NO	SUBJECT	HOURS / WEEK		UNITS		
		Theory	Practical	Theory	Practical	Total
1	Medical Physics	2	2	4	2	6
2	Basic Biochemistry	2	2	4	2	6
3	Dental Anatomy	2	4	4	4	8
4	Medical Biology	2	2	4	2	6
5	Kurdish Language (includes Dialogue and Discussion between students)	2	0	4	0	4
6	Computer	1	2	2	2	4
7	Medical Terminology and English Language	1	0	2	0	2
8	Scientific debate	2	0	4	0	4
	TOTAL					40

### **NOTES:**

**1- Dental Clinical Correlations should be included in the lecture series of each basic science topics.**

**2- Clinical Correlation topic should be emphasized in an Academic Debate way and to be credited as 2 units/week.**

**3- Critical Thinking must involve 30% of each topic.**

## **SECOND YEAR CURRICULUM**

NO	SUBJECT	HOURS / WEEK		UNITS		
		Theory	Practical	Theory	Practical	Total
1	General and Oral Anatomy	2	3	4	2	6
2	Dental Materials	1	2	2	2	4
5	Preclinical Prosthodontics	1	4	2	4	6
6	Clinical Biochemistry	2	2	4	2	6
3	General and Oral Histology	2	2	4	2	6
4	General and Oral Physiology	2	2	4	2	6
7	Clinical Research and Statistics	1		2		2
	Total					36

### **NOTES:**

- 1- Dental Clinical Correlations should be included in the lecture series of each basic science topics.**
- 2- Clinical Correlation topic should be emphasized in an Academic Debate way.**
- 3- Critical Thinking and Academic Debate must involve 30% of each topic.**

## **THIRD YEAR CURRICULUM**

NO	SUBJECT	HOURS / WEEK		UNITS		
		Theory	Practical	Theory	Practical	Total
1	Preclinical Conservative Dentistry ( includes fixed prosthodontics)	2	6	4	4	8
2	Preclinical Removable Prosthodontics	1	4	2	4	6
3	Oral Surgery	1	2	2	2	4
4	Pharmacology	2	2	4	2	6
5	General Pathology	2	2	4	2	6
6	General Surgery	1	2	2	2	4
7	General Medicine	1	2	2	2	4
8	Microbiology	2	2	4	2	6
	Total					44

### **NOTES:**

- 1- Dental Clinical Correlations should be included in the lecture series of each basic science topics.**
- 2- Clinical Correlation topic should be emphasized in an Academic Debate way.**
- 3- Critical Thinking and Academic Debate must involve 30% of each topic.**

## **FOURTH YEAR CURRICULUM**

NO	SUBJECT	HOURS / WEEK		UNITS		
		Theory	Clinical	Theory	Clinical	Total
1	Clinical Conservative Dentistry	1	4	2	4	6
2	Oral and Maxillofacial Surgery	1	4	2	4	6
3	Prosthodontics	1	4	2	4	6
4	Orofacial Radiology and Imaging	1	4	2	4	6
5	Periodontology	1	4	2	4	6
6	Oral Pathology	2	2	4	2	6
7	Orthodontics	1	3	2	2	4
8	Community Dental Health	1	0	2	0	2
9	The Management of Medically Compromised Patient in Dentistry	1	0	2	0	2
	Total	11	25	20	24	44

**NOTE:**

**Critical Thinking and Academic Debate must involve 30% of each topic.**

## **FIFTH YEAR CURRICULUM**

NO	SUBJECT	HOURS / WEEK		UNITS		
		Theory	Clinical	Theory	Clinical	Total
1	Oral and Maxillofacial Surgery	2	4	4	4	8
2	Prosthodontics	1	4	2	4	6
3	Periodontics	1	4	2	4	6
4	Orthodontics	1	3	2	2	4
6	Community and Preventive Dentistry	1	3	2	2	4
7	Oral Medicine	2	2	4	1	5
8	Conservative Dentistry	2	4	4	4	8
5	Pedodontics	1	3	2	2	4
9	Seminars and Student's Research	1		2		2
	Total					47

### **NOTES:**

**1- Critical Thinking and Academic Debate must involve 30% of each topic.**

**2- Topics may include Dental Implantology, Occlusal Adjustment, Comprehensive Care, Community Based Education, Cultural Competency in Health Care, Introduction to Life long Learning, Drugs in Dentistry and others.**

**3-The clinical training of Oral and Maxillofacial Surgery and Orofacial Medicine is in the College of Dentistry and in Emergency Teaching Hospital.**

**NOTE:**

Immediately after graduation the graduated students train for a compulsory one calendar year under supervision in specialized dental center of Ministry of Health in the following branches:

1. Conservative dentistry.
2. Prosthodontics.
3. Oral and maxillo- facial surgery.
4. Periodontology.
5. Oral diagnosis.
6. Pediatric Dentistry.
7. Preventive Dentistry.
8. Orthodontic dentistry.

(Total clinical training hours: 2184 /year).

