

# Program Specification

## A - Basic Information:

1. **Program Title:** Bachelor Degree in Oral & Dental Surgery
2. **Program Type:** **Single** ■ Double Multiple
3. **Department(s):**
  - Basic Dental Sciences Department.
  - Prosthetic Dentistry Department.
  - Conservative Dentistry Department.
  - Oral and Maxillofacial Surgery Department.
  - Orthodontics and Pedodontic Department.
  - Oral medicine, Periodontology, Diagnosis and Oral Radiology Department.
  - Courses taught in Basic Science Department include:  
Chemistry, Physics, Biostatistics, English, Anatomy, General Histology, Physiology, Medical Biochemistry, Microbiology, General Pathology, Pharmacology, General Medicine, Community Medicine, General Surgery, Humanities, Management, Scientific thinking and Esthetics
4. **Coordinator:** Prof. Kareman El-soudany (Vice Dean of Student Affairs)
5. **External Evaluator:** Prof. Ehab Saeed (Director of Quality Unit Ein Shams Univ.
6. **Last date of program specification approval:** September 2017.

## B- Professional Information:

### 1- Program Aims :

- To reveal how to properly diagnose and manage different dental problems independently or with the aid of other dental professions.
- To teach students to apply infection control and safety measures in dental environment.
- To practice different treatment modalities in dental field within the scope of general dentistry with proper referral whenever needed.
- To integrate evidence based science into practice.
- To teach students how to be ethically professional in patient's care and to respond to their socio-economic aspects.
- To conclude the importance of the quality assurance in dental practice.
- To encourage continuing students professional development and lifelong independent self-learning using the available resources.
- To integrate recent advances in digital dentistry and related technologies.
- To identify medico-legal aspects of the dental practice.

## **2- Intended Learning Outcomes (ILOs)**

### **A- Knowledge and Understanding :**

*By the end of this program every graduate must be able to:*

- A1- Determine scientific dental English terms.
- A2- Describe fundamental sciences that are considered to be the base of dental subjects.
- A3- Identify biomedical sciences relevant to dental practice.
- A4- Determine basics and implication of oral health promotion, nutritional education and prevention of oral diseases.
- A5- Identify the growth, form, histological structures and function of teeth and associated tissues in health and diseases.
- A6- Explain pathogenesis of common oral and dental disorders and their management.
- A7- Describe the fundamentals of dental biomaterials, including their handling, limitations and their use as well as the laboratory equipment necessary.
- A8- Distinguish the pathogenic mechanisms of human diseases which have dental implications.
- A9- Determine normal and abnormal findings present in investigation reports including radiographic images, histopathological pictures and blood chemistry analysis.
- A10- List instruments used in dental practice.
- A11- Enumerate the scientific principles of sterilization, disinfection and antisepsis in labs and dental clinics.
- A12- Describe the pharmacological properties of drugs used in dental practice including their interactions and side effects.
- A13- Identify the main medical disorders that may impinge on dental treatment.
- A14- Determine medical emergencies and means of their prevention as well as management.
- A15- Identify ethical and medico-legal aspects, human rights relevant to dental practice and research.
- A16- Discuss different diseases affecting dental and para-dental structures and the basic principles for their management.
- A17- Determine biomaterial used in dental prosthesis regarding properties and manipulation.
- A18- Describe the laboratory procedures for dental prosthesis construction.
- A19- Identify the basics for clinical examination and establishment of a comprehensive patient's dental and medical history.

- A20- Determine the principles of preventive, interceptive and corrective orthodontic treatment and time of referral to orthodontist.
- A21- Identify jaw relation and ideal occlusion with the probable deviations from normal
- A22- Describe eruption mechanism and occlusion criteria in children.
- A23- Identify different dental problems affecting children and ways of their management.
- A24- Predict the basic information and skills necessary to perform local anesthesia and extraction.
- A25- Outline the principles of different dental radiographic techniques.
- A26- Identify the basic principles of oral and maxillofacial surgery.
- A27- Memorize basic principles of evaluation and diagnosis of pulpal and periradicular lesions.
- A28- Determine the management of diseased or injured pulp and periradicular tissues in the primary and permanent dentitions.
- A29- Describe the biocompatible, functional and aesthetic fixed dental prostheses.
- A30- Outline principles of evidence based decision making and critical thinking in dental practice and research.
- A31- Discuss the principles of implant dentistry
- A32- Summarize laser applications in dentistry.
- A33- Identify the relevance of microbes to human disease with dental relevance.
- A34- Describe lesions affecting gingival and the periodontal tissues with their management.

**b- Intellectual Skills:**

*By the end of this program every graduate must be able to:*

- B1-Relate basic science with clinical features of different diseases.
- B2-Detect normal and abnormal conditions relevant to dental practice.
- B3- Analyze, interpret and integrate collected data to solve clinical problems based on current evidence.
- B4- Design proper treatment plan for different dental problems.
- B5- Evaluate the effects of medications on dental management.
- B6- Select the proper implant design for different clinical cases.
- B7- Assess patient risk for caries and implementing caries prevention strategies.
- B8-Plan for the laboratory procedures used in the production of removable and fixed prosthetic appliances.

- B9-Evaluate preventive and restorative procedures that preserve tooth structure and prevent hard tissue disease as well as promote soft tissue health.
- B10-Interpret different defects affecting tooth structure.
- B11- Develop strategies to predict and correct deficiencies in patient's oral hygiene regimens.
- B12- Select proper relevant dental instruments and instrumentation.
- B13-Choose correct dental biomaterial according to its specific application.
- B14- Analyze physical quantities and properties of matter.
- B15-Detect pulpal and periapical diseases with their adequate line of treatment.

**C- Professional and practical skills:**

*By the end of this program every graduate must be able to:*

- C1- Apply different diagnostic procedures as well as consultation with other health care professionals when required to develop a comprehensive treatment plan
- C2- Illustrate the common disorders of the body organ systems.
- C3-Report abnormal or pathological conditions with their etiology and risk factors
- C4-Manage of patients need restorative or fixed prosthetic treatment.
- C5- Deal with different diseases & lesions affecting the oral and para-oral structure
- C6- Diagnose and illustrate preventive measures for developing malocclusion.
- C7- Conduct non surgical periodontal treatment for selected cases and follow up the treatment outcomes.
- C8- Perform dental endodontic procedures.
- C9- Select different designs of implant for different oral situations.
- C10- Consider esthetic into the scope of different dental practices.
- C11-Apply local anesthesia and extraction techniques as well as dealing with expected complications during surgical procedures.
- C12- Rehabilitate partially and completely edentulous patients.
- C13-Apply quality control and principles of infection control to dental practice
- C14- Control anxiety behavior for different ages.
- C15- Prescribe the appropriate pharmaceutical agents considering drug and patient factors.
- C16- Deal with dental and medical emergencies which may occur in dental clinic and perform basic life support measures.
- C17-Take radiographs for dental and para-dental structures with interpretation of images and avoiding the hazards of radiation.
- C18- Manipulate dental materials sticking to the guidelines of each of them.

C19- Use light microscopic examination in identification of microorganisms and different histological or pathological sections.

C20-Illustrate constituents of diets and different ways of digestion.

C21-Analyse biochemistry of body fluids.

C22-Solve different statistical, physical and chemical problems.

C23- Demonstrate the histological structure and function of teeth and oral tissues.

**d- General and transferable skills:**

**By the end of this program every graduate must be able to:**

D1- Collaborate with other dental members in a team

D2- Correspond efficiently in multidisciplinary work environment using verbal and non verbal means.

D3- Employ recent information technology for communication and applications related to oral health care.

D4- Assess his/her performance, progress as well as the professional abilities in dental practice.

D5- Use all available resources successfully to continue professional development and lifelong learning.

D6- Demonstrate a creative attitude in an ethical and scientific approach.

D7-Apply quality assurance in dental practice.

D8- Judge the workload, and establish priorities to overcome stress in the workplace.

D9- Detect the professional responsibility towards the surrounding community.

**3- Academic Standards:**

**-National Academic Reference Standards (NARS)**

**4- The Benchmarks:**

**-National Academic Reference Standards (NARS)**

**5- The structure and contents of the program :**

5.1. Program duration: 10 semesters (5 levels)

5.2. Program structure:

- Total credit hours: 180		
- Credit hours of basic sciences courses:	64	% 35.5
- Credit hours of Medical and Dental sciences:	102	% 56.5
- Credit hours of complementary:	14	% 8

**6- program courses:****A. Faculty Requirements****6.1. Level: Freshman****Semester: Fall**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
DTS101	Dental terminology	1	1	-
PHS101D	Physiology1	3	2	2
CHG 101	General and Physical Chemistry	2	1	2
PHY101	Physics 1	2	1	2
HMD101	Human Dentition 1	3	2	2
HST101D	Histology 1	3	2	2
HUN 101	Human rights	3	3	-
ENG 111	English	-	-	-

**6.1. Level: Freshman****Semester: Spring**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
CHO 102D	Organic Chemistry	2	1	2
MBG102D	Microbiology	3	2	2
PHS102D	Physiology	2	2	-
ENG111	English	1	1	-
ANT102D	General Anatomy	2	1	2
HMD102	Human Dentition 2	3	2	2
MGT101	Management	3	3	-
ETS101	Ethics	1	1	-

**Level: Sophomore****Semester: Fall**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ANT201	Anatomy of head and neck	3	2	2
OPH201	Oral Physiology 1	1	1	-
ORB201	Oral Biology 1	3	2	2
DBM201	Dental Biomaterials 1	2	2	-
CHB201D	Biochemistry	2	1	2
PLG201D	Pharmacology	2	1	0
PTH201D	Pathology 1	3	2	2
ENG112	English	-	-	-

**Level: Sophomore****Semester: Spring**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ORB202	Oral Biology 2	3	2	2
PLG202D	Pharmacology 2	2	1	2
PTH202	Pathology 2	2	2	1
CHB202D	Biochemistry	2	1	2
DBM202	Dental Biomaterials 2	3	2	2
ENG112	English	1	1	-
REM101	Scientific Thinking	3	3	-

**Level: Junior****Semester: Fall**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ORP301	Oral Pathology 1	3	2	2
COM301	Community	2	2	-
ODT301	Operative Dentistry Technology 1	3	1	4
RPT301	Removable Prosthodontics Technology 1	4	2	4
FPT301	Fixed Prosthodontics Technology 1	2	1	2
DBM301	Dental Biomaterials 2	2	1	2
ENG113	English	-	-	-

**Level: Junior****Semester: Spring**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ORP302	Oral Pathology 2	3	2	2
OCC302	Occlusion	1	1	-
ODT302	Operative Dentistry Technology 2	3	1	4
FPT302	Fixed Prosthodontics Technology 2	2	1	2
RPT302	Removable Prosthodontics Technology 2	4	2	4
BST301	Biostatistics	1	1	-
ENG113	English	2	2	-

**Level: Senior****Semester: Fall**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
GMD401N	General Medicine 1	3	2	2
GSR401N	General Surgery 1	3	2	2
ODC401	Operative Dentistry Clinic 3	2	1	3
RPC401	Removable Prosthodontics Clinic 3	3	1	4
FPC401	Fixed Prosthodontics Clinic 3	2	1	3
OSA401	Oral Surgery 1	3	2	2
ORD401	Orthodontics 1	2	1	2
DFD401	Diagnosis	3	2	2

**Level: Senior****Semester: Spring**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ORR402	Oral Radiology	3	2	2
IMP402	Introduction in dental implant	1	1	-
ODC402	Operative Dentistry Clinic 4	2	1	3
RPC402	Removable Prosthodontics Clinic 4	3	1	4
FPC402	Fixed Prosthodontics Clinic 4	2	1	3
ORS402	Oral Surgery 2	3	2	2
ORD402	Orthodontics 2	2	2	1
ENT402	Technology of Endodontics	3	2	2

**Level: Senior****Semester: Fall**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ODC501	Operative Dentistry Clinic 5	3	1	4
RPC501	Removable Prosthodontics Clinic 5	3	1	4
FPC501	Fixed Prosthodontic Clinic 5	3	1	4
END501	Endodontics 2	2	1	2
ORS501	Oral Surgery 3	3	2	2
PDS501	Pedodontics 1	2	1	2
OMD501	Oral Medicine 1	3	2	2
PER501	Periodontics 1	2	1	2



**Level: Senior****Semester: Spring**

Code	Course Title	Credit hours	weekly hours	
			Lectures	Practical
ODC502	Operative Dentistry Clinic 6	3	1	4
RPC502	Removable Prosthodontics Clinic 6	3	1	4
FPC502	Fixed Dentistry Clinic 6	3	1	4
END502	Endodontics 3	2	1	2
ORS 502	Oral Surgery 4	3	2	2
PDS502	Pedodontics 2	2	1	2
OMD502	Oral Medicine 2	2	1	2
PER502	Periodontics 2	3	2	2

Code	Course Title	Units	weekly hours	
			Lectures	Practical
ENG 111	English 111	1	4	--
ENG 112	English 112	1	4	--
ENG 113	English 113	2	4	--
HUM 101	Humanities	3	3	--
MGT 101	Management	3	3	--
REM 101	Scientific Thinking	3	3	--
ETS 401	Ethics	1	1	--
Total		14		

**B- University requirements****6-Program admission requirements:**

The regulation for student admission follows the Supreme Council of Private Universities (SCU) admission regulations where the minimum score in high school or its equivalent is 90% and the number of enrolled students not more than 315; in turn; there is internal ranking of students according to their score.

**7- Methods of the assessment of the intended learning outcomes:**

No.	Method	Learning target output
1	Quizzes	Knowledge and Intellectual skills
2	Assignment	Intellectual skills, General Transferable skills
3	Self Learning through E	Knowledge, Intellectual & General

	learning in 23 courses and PBL in ORP 302	Transferable skills
4	Practical exam	Professional and Practical skills
5	Oral Exam	Knowledge, Intellectual & General Transferable skills
5	Written Exams (mid-term & final)	Knowledge and Intellectual skills

**8- Methods of the program evaluation:**

No.	Evaluator	Method
1	Students of final level	Final examination & external examiners
2	Graduates	Internship evaluation by Ministry of Health
3	External Evaluator	Prof. Ehab Saeed (Director of Quality Unit Ein Shams University)

**Program coordinator: Prof. Kareman El-Soudany, vice Dean of Student Affairs**

**Signature:**

**Date: September 2017**