



Quality Assurance Center
(QAC)
مركز ضمان الجودة

Pharos University
جامعة فاروس



Pharos University in Alexandria

Faculty of Dentistry

**Program Report
2023-2024**



- **University /Academy:** Pharos University in Alexandria
- **Faculty / Institute:** Faculty of Dentistry

Program Report

A- Basic Information

1	Program Title	Bachelor Degree of Dental Medicine and Surgery (B.Sc. Dental Medicine & Surgery - BDS) بكالوريوس طب وجراحة الفم و الاسنان	
2	Program Type	Undergraduate program	
3	No of Academic years	Five years + 1 Internship year	
4	Program duration	Five years / 10 semesters	
5	No of Credit hours/ No of Courses	Lectures	107 hrs
		Lab/Tutorial	104/18 hrs
		Clinical	92 hrs
		Basic Sciences courses	70 hrs
		Medical & Dental Sciences	121 hrs
		Complementary Sciences	16 hrs
		Discretionary Subjects	2 hrs
		TOTAL	209 hrs
6	Academic departments:	1. Oral Biology	
		2. Oral Pathology	
		3. Oral Diagnosis & Radiology, Oral Medicine & Periodontology	
		4. Pediatric &Community Dentistry	
		5. Oral & Maxillofacial Surgery	
		6. Restorative Dentistry & Dental Biomaterials	
		7. Prosthetic Dentistry (Fixed & Removable Prosthodontics)	
		8. Orthodontics	



7	Basics of external examiner committee selection	<p>Members of the committee were selected and approved in the departmental councils meeting on the following basis:</p> <p><u>BASIC STANDARDS:</u></p> <p>1-Should be a faculty member in one of the prestigious academic institutions and in the same field of specialization or majors (professor). 2-Has the academic knowledge, professional experience and appropriate skills associated with the field of specialization being assessed. 3-Has a good reputation and has previous experience as an external examiner.</p> <p><u>Conflict of interest</u></p> <p>1-The external examiner should not be working at the present time in any other faculty within Pharos University. 2- The external examiner should not have previously worked at Pharos University.</p>
8	System of external examiners:	Non applicable

B- Specialized Information

Statistical information

Students' distribution among the five years/ academic year:

Total number of students registered for the academic year 2023/2024:

Student academic level	Students number
Freshmen	346
Sophomore	201
Junior	282
Mid-Senior	313
Senior	328
Total	1470



➤ **No. of students completing the program during 2021/2024:**

Academic year	Total no of students	No of graduate students	% of graduate students
2023/2024	328	284	86.58%
2022/2023	473	452	95.56%
2021/2022	420	412	98.09%

Number of new students joining the faculty for the last four years:

Student academic level	
2023/2024	309
2022/2023	213
2021/2022	243
2020/2021	277

***The number was not much changed through 2019-2021; however, it was reduced in 2022 and 2023 due to new regulations set by ministry of higher education and also the opening of several new faculties in the near area, but have been raised again in 2023/2024**

Grading of the academic year 2023/2024:

Academic level	> 85%		75%-85%		65%-75%		60% - 65%		50%-60%		< 50%	
	Fall%	Spring %	Fall%	Spring %	Fall%	Spring %	Fall %	Spring %	Fall%	Spring %	Fall %	Spring%
Freshmen	37.28	29.5	17.25	21.2	16.9	19.0	7.09	9.3	15.74	13.8	5.68	7.2
Sophomore	34.9	39.1	21.6	22.1	25.2	20.6	8.1	6.5	7.9	10.1	2.2	1.6
Junior	43.1	39.77	24.64	27.03	16.75	14.04	6.38	5.87	6.91	12.08	2.21	1.17
Mid-Senior	39.94	28.73	32.82	38.14	17.17	22.19	4.33	5.69	4.12	4.31	1.63	0.93
Senior	18.66	23.4	40.26	19.79	26.01	19.31	6.69	8.03	6.48	15.41	1.90	14.05



Academic standards

☒ Reference Academic Standards:

Intended Learning Outcomes of Program (ILOs):

A. Knowledge and Understanding:

Upon completion of the program, the graduate must be able to:

A1	Describe the anatomical, cellular, biophysical and bimolecular structural organization of major body systems, as well as, their functions; which form the basis for describing growth, development, and physiology.
A2	Recognize the essentials of genetics, anatomical structures, biodiversity and physiological principles related to animal, plants, & human health, as well as, the interrelationship between organisms and between the functions of different systems of the human body.
A3	Describe the normal homeostasis, healing of wounds, mechanisms of body responses to trauma and diseases, as well as, the pharmacological action of drugs used.
A4	Describe the pathogenesis and patho-histological features of diseases affecting the body, oral and maxillofacial region, and genetic disorders.
A5	Describe the structure, progression and spread of different types of pathogens, pathophysiology of microbial diseases, and human immunology
A6	Identify the structures and functions of teeth and associated structures, in health and disease, as well as, principles of occlusion, chronology and detailed morphology of primary, as well as, permanent teeth
A7	Classify the diseases and disorders affecting the oral cavity and its associated structures, their predisposing factors, manifestations, and prognosis; together with the principles of their diagnosis, management and prevention.
A8	Discuss in details specific dental topics including:
	A8.1 The present theoretical and practical knowledge regarding the composition, manipulation and properties of all the dental materials used in the field of dentistry.
	A8.2 The normal structure of periodontium and variable periodontal diseases.
	A8.3 The microbiological & immunological aspects of different diseases and their oral manifestations, along with, diseases of concern in the dental practice.
	A8.4 The different oral lesions, their pathogenesis and differential diagnosis
	A8.5 The basic principles or radiology, dental x-ray machines and interpretation of radiographs

	A8.6 Local anesthesia, pain and anxiety control.
	A8.7 The process of caries formation and progression, together with the basic principles of tooth restoration and root canal treatment.
	A8.8 The types of orthodontic problems, principles of diagnosis and treatment of various cases of malocclusion.
	A8.9 The principles and advances in restoring teeth by fixed and removable prosthodontics
	A8.10 The necessary information in behavior management, diagnosis, prevention and treatment of patients in primary, mixed, and early permanent dentition in Pediatric dentistry,
	A8.11 The basic Pharmacology and effects of drugs and therapeutics.
	A8.12 The types of oral and maxillofacial diseases and defects, together with the principles of their surgical and prosthetic management protocols.
	A8.13 The concept of Dental Public Health, epidemiology of several dental diseases, methods of oral health education and preventive dentistry.
	A8.14 The principles of examination, diagnosis, various diagnostic aids and new methods in data collection.
A9	Identify the sources of cross-infection and the essential means for infection control.
A10	Identify the health hazards from different dental biomaterials and fluorides.
A11	Recognize the medical emergencies that may occur in the dental surgery, as well as, their prevention and management methods, including basic life support and resuscitation.
A12	Describe basic principles of Chemistry, Biochemistry, pharmacokinetics and pharmacodynamics of major classes of drugs used in dental practice, in order to ensure safe prescription of the drugs to the dental patient.
A13	Identify the basic principles of oral health promotion, levels of prevention of oral diseases, then, how these principles are applied in population based approaches.
A14	Define the various principles of medico-legal aspects & code of ethics upon which the practice of dentistry is based, especially those relating to treatment of patients and involvement of patients in research.
A15	Define the broad principles of scientific research methodologies, scientific writing and the evaluation of evidence that are necessary for an evidence-based approach in the dental field.
A16	Summarize the basics of dental practice management and the role of dental personnel.
<i>B. Intellectual Skills:</i>	
Upon completion of the program, the graduate must be able to:	
B1	Integrate the structure of the body systems with their function and concepts of physiology with emphasis on clinical relevance.
B2	Distinguish the signs and symptoms, pathological and histological structures, as well as, risk

	factors of various diseases.
B3	Evaluate patient's general health status & its relation to other body systems & oral tissues.
B4	Interpret extra and intra oral radiographs in order to recognize health and disease condition.
B5	Analyze all the collected diagnostic data, including, patient's history, laboratory and radiographic investigations, as well as, clinical examination, to solve clinical problems based on current evidence
B6	Design an appropriate, sequenced, and prioritized treatment plan relevant to patients' needs and requirements, whether children, adults or specific populations.
B7	Compare between the different types, designs and techniques of teeth restorations, prosthodontics, as well as, restorative materials.
B8	Integrate deductive reasoning in formulating effective clinical solutions, elevating proficiency in clinical problem solving for diverse challenges in the dental clinic.
B9	Integrate the basic biomedical, behavioral and dental sciences with signs, symptoms and physical findings to reach an accurate differential diagnosis
B10	Differentiate between normal and abnormal features that are particularly relevant to oro-facial region.
B11	Assess and evaluate the effects of medications taken by the patient on dental management.
B12	Differentiate between the various conditions related to the medico-legal aspects of the dental profession.
B13	Combine the basic principles of scientific research to the regulations of evidence-based dentistry in order to stimulate critical thinking to allow students to acquire research methods & skills in the collection, evaluation & presentation of evidence.
B14	Inspect the recent materials, and updated technologies in diagnosis and their clinical application in treatment and prevention of dental and oral problems.
B15	Integrate the concepts of chemistry, biophysics, genetics and cell differentiation with formulation of hypothesis

C. Professional & Practical Skills:

Upon completion of the program, the graduate must be able to:

C1	Apply current infection control guidelines as well as practice management protocols for a proper effective safe environment.
C2	Build database including comprehensive patient's history and all diagnostic data for patient illness.
C3	Apply systematic clinical examination including general, extra-oral, & intraoral procedures;
C4	Choose appropriate investigations & radiographic examination
C5	Interpolate consultation with other health care professionals, when needed, especially if

	systemic diseases are suspected.
C6	Discover oral & maxillofacial diseases, disorder and, pathological conditions, as well as, etiological and/or risk factors that may contribute to the disease process.
C7	Apply comprehensive clinical care, encompassing patient assessments after taking patients consent for treatment procedures
C8	Modify level of patient's anxiety and apprehension for better cooperation in different age groups.
C9	Apply a range of pre-clinical and clinical procedures which are within the scope of general dentistry, which include:
	C9.1 Use properly different dental materials different instruments and equipment.
	C9.2 Apply the steps of oral surveying and designing then the different laboratory procedures for preparation of various restorations/appliances.
	C9.3 Apply oral preventive procedures
	C9.4 Apply different local anesthetic techniques.
	C9.5 Apply teeth extraction and removal of roots when necessary.
	C9.6 Apply different types of teeth preparations for various types of restorations.
	C9.7 Construct fixed and removable Prosthetic appliances for missing teeth and various procedural preparatory aids (trays, record blocks ...etc.)
	C9.8 Apply gingival & periodontal disease treatment.
	C9.9 Use different techniques of root canal preparation, obturation, as well as, periradicular lesions surgical and non-surgical management.
	C9.10 Use implants, and superstructure fixed restoration/ over dentures in recommended cases.
C10	Build skills in managing dental and medical emergencies which may occur in dental practice and in performing basic life support measures.
C11	Select the appropriate pharmaceutical, therapeutic and preventive agents taking into consideration drug and patient factors.
C12	Use patient Monitoring to ensure quality-control comprehensive dental management.
C13	Use electron and light microscope for detection of various, histological and pathological slides, anatomical sections, as well as microorganisms and microbiological smears.
C14	Select the appropriate laboratory procedures for classifying different types of enzymes, macromolecules, biochemical preparations, as well as inorganic chemical reactions.
C15	Sketch anatomical and histological structures for normal or pathological cells tissues and body organs, as well as, their distribution.
C16	Use diagnostic criteria in disease detection and indices in disease measurement.

C17	Use didactic knowledge to solve clinical and oral problems.
<i>D. General & transferable skills:</i>	
Upon completion of the program, the graduate must be able to:	
D1	Develop teamwork skills appropriate for working within a multi-skilled team.
D2	Apply efficient flexible Communication Skills with different multicultural, & diverse groups of the community in general.
D3	Combine constructive criticism with positive reaction and self-evaluation of professional abilities, as well as performance
D4	Appraise ethical professional attitude including confidentiality, compassion, empathy, integrity, responsibility & tolerance.
D5	Develop students' innovative & creative skills.
D6	Maximize professional development through:
	D6.1 Use available technologies and resources
	D6.2 Generate life-long learning strategies
D7	Recognize the professional guidelines to ensure quality assurance in the clinical work.
D8	Organize workload to minimize personal stress in the framework of proper performance and management.



☒ Student support system:

Academic support

- There is the (academic supervision) scientific leadership system in which each staff member gives academic support to specified number of students as an academic advisor.
- There is a general academic advisor for the faculty.
- Declared office hour system (2hours/week/course) for each staff member involved in teaching is available to answer the students' scientific questions.
- Each academic advisor undergoes 3 meetings with his advisees every semester.
- By the end of each semester academic advisors upload the following to the Academic advising follow-up committee: Data of their advisees including names, IDs, contacts, levels, CGPA along with the performance curve, and proof/link to the 3 held meetings, attendance and actions taken regarding warnings, marks and performance of on-probation students with CGPA less than 2.0, meetings with the parents of students with academic warnings.

Support for students who are at risk or those with limited skills:

- Students who miss **25%** or more of the practical sessions or tutorials are warned twice via official letters sent to their addresses. Students should attend **75%**, otherwise will be prevented from applying to the final examination (Forced withdraw 'FW' for final examination).
- Students who manage to provide a legal document indicating an acceptable excuse for missing 25% or more of practical sessions or tutorials are allowed to attend the final examinations.
- According to the faculty bylaws the academic year is divided into two semesters. Students are informed with their grades of the first semester examination, maximum one week after the end of exams, so those who are at risk of failure can work harder during the second semester.
- After being informed with their grades, students are offered a reasonable period of time (2 weeks) during which they are allowed to submit any complains of their results to the dean's office, and their results are revised by both control committee & course instructor, then they are informed of the results.
- The academic advisor can support students who are at risk in academic and social level. The academic advisor discusses with them the priorities in courses registration.
- Students are asked to prepare presentations, posters, or other assignments throughout the semester, which help them to get better marks through continuous course work evaluation.
- Students are graded every practical session in some departments, where the students submit the results of the practical experiment they performed and these results together with their performance during the practical sessions are evaluated. These grades are included in their final grade.
- Model answers of some quizzes / exams are displayed in the departments to inform the students with appropriate answers so they can estimate their average grades.
- Student feed-back system is applied in all subjects.



Disabled students:

- Assisting students having minor motor disabilities who were unable to shade their answer sheets during the exams by allowing them to mark in their question sheets instead of shading their answer sheets.

Support for students with outstanding performance:

- They officially receive financial awards. This celebration occurs during the graduation day which is organized by the faculty and students' union. Financial incentive as follows: 25% discount from faculty fees on the year of distinction for the first ranked student; 10% discount for the second ranked student; and 5% discount for the 3rd ranked student.
- The first outstanding students are employed in the faculty as demonstrators according to a faculty annual plan.
- Allowing outstanding students in research activities in the students' conference to present their research work in front of administrative representative as a form of recognition.
- A poster including the names for the first 10 students in the graduation research and graduation clinical comprehensive cases is designed as an award for the outstanding students.
- Students with CGPA more than 3.5 are allowed to register 2 more credit hours during the semester.
- The university system supports and distinguishes artistic and athletic excellence for students through organization of art exhibitions and sports competitions.
- Participation of distinguished students in scientific competitions that are held on the sidelines of dental conferences.

☒ Program Reference Standards:

National academic reference standards NARS 2009

☒ Availability and adequacy of program handbook

- There is a student handbook (guide) to show the regulations and instructions of the faculty. This handbook is received by all first-year students.
- The information supplied by handbooks is available on the faculty website

☒ Continuous Program Revision System:

- Available through a special faculty committee, specially constructed for this purpose. [Curriculum and Program Development Committee]
- The committee construction is renewed whenever needed by adding new members, and approved by the faculty council.
- Moreover, internal auditing committee regularly reviews all the program and courses specifications, reports and matrices, for updates and corrections according to the feedback from the labor workplace, the national academic accreditation reports, student's questionnaires and suggestions from the departments for development.



☒ Matching of the program academic structure with ILO's:

A- Matching with NARS

Sciences	NARS Hours %	Faculty Curriculum Hours %
Basic Science Courses	28-32%	33.4%
Medical & Dental Sciences	54-62%	57.89%
Complementary Sciences	5-8%	7.6%
Discretionary Subjects	6-8%	0.9%

B-Matching with Courses

The following courses are being taught using the following ILOs:

I. Required courses:						
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 1	CHM111	Chemistry 1	A12 A15	B13, B15	C14	D1 D2 D5 D6.1
	HST 211	General Histology1	A1 A2 A3 A4	B1 B2 B6 B10	C2 C3 C14 C15	D1 D2 D4 D6.1
	OBD 111	Dental Anatomy 1	A6	B10 B13	C3	D1 D4 D5
	BCM112	Biochemistry1	A1 A2 A12	B1 B2 B9	C1 C2 C14	D1 D2 D6
	ZOL111	Zoology 1	A1 A2 A3	B1 B2 B15	C13 C15	D2 D6 D8
	BOT 111	Botany & Genetics 1	A2	B15	C13	D6.1
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 2	CHM122	Chemistry 2	A8.1 A10 A12	B9 B13 B15	C14	D1 D2 D5 D6.1
	OBD122	Dental Anatomy 2	A1 A6	B4 B12	C15	D1 D6 D8
	HST 222	General Histology 2	A1 A2 A3 A4	B1 B2 B10 B15	C5 C10 C13 C15	D1 D2 D3 D8
	BPH111	Biophysics	A1 A2 A12	B1 B2 B9	C14	D1 D2 D6.1
	ZOL 122	Zoology 2	A1 A2 A3 A4 A5	B1 B2 B15	C13	D5 D6.1
	BOT122	Botany & Genetics 2	A2	B15	C13 C14	D6.1
	BCM221	Biochemistry 2	A1 A2 A12	B1 B2 B9	C1 C2 C14	D1 D2 D6



SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 3	RDM211	Dental Biomaterial 1	A8.1 A8.14 A10 A14	B5 B13 B14	C9.1 C9.2	D1 D2 D6
	CD 312	Dental Clinic Management & Infection Control	A5 A8.3 A9 A16	B2 B8	C1	D1 D2 D6
	PHY211	General Physiology 1	A1 A2 A3	B1	C5	D1 D2 D3
	ANT211	Human Anatomy 1	A1 A2	B1 B10	C5	D1 D2 D3
	PTH212	General Pathology 1	A3 A4 A5	B2	C6 C13	D1 D2 D6
	MCR311	General Microbiology & Immunology 1	A2 A3 A5 A8.3 A8.4 A9	B5 B6 B13	C11 C13	D1 D5 D6
	OMR 312	Dental Radiology	A8.5 A8.14	B4	C4	D4 D5 D6
	PHM311	Pharmacology 1	A8.6 A8.11 A12	B2 B11	C9.4 C10 C11	D1 D2 D4
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 4	ANT222	Human Anatomy 2	A1 A2 A4	B1 B2 B10	C5 C10 C13 C15	D1 D2 D3
	PHY222	General Physiology 2	A1 A2 A3	B1 B3	C5 C16	D1 D2 D3
	PTH321	General Pathology 2	A3 A4 A5	B2	C6 C13 C15	D1 D2 D6
	OB 212	Oral Biology & Embryology 1	A1 A6 A8.2	B1 B2 B13	C13 C15	D1 D6
	RDM222	Dental Biomaterial 2	A8.1 A8.7 A8.9 A10	B7 B13 B14	C9.1 C9.2	D1 D2 D6
	MCR322	Oral Microbiology & Immunology 2	A5 A8.3 A8.4 A9	B5 B6 B13	C6 C11 C13 C17	D1 D5 D6
	PHM322	Pharmacology 2	A3 A8.11 A11 A12	B2 B11	C10 C11	D1 D2 D4
II. Elective Courses:						
ELC01	C17	C17	C17	C17	C17	C17
ELC02	C4 C17	C4 C17	C4 C17	C4 C17	C4 C17	C4 C17
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 5	RD 311	Restorative Dentistry 1	A6 A8.1 A8.9	B7 B14	C9.2 C9.6 C9.7	D1 D3 D6
	FPR311	Fixed Prosthodontic 1	A6 A8.1 A8.9	B7 B14	C9.1 C9.2 C9.7	D1 D3 D5 D6 D8
	RPR311	Removable Prosthodontics 1	A6 A8.1 A8.9	B1 B7 B14	C9.1 C9.2 C9.7	D1 D2 D4 D5 D6
	OPTH311	Oral Pathology 1	A4 A5 A6 A7 A8.3 A8.4	B2 B4 B5 B10 B13	C4 C6	D1 D2 D5 D6 D8
	OB 321	Oral Biology & Embryology 2	A1 A6 A7	B1 B2 B13	C3	D1 D5 D6.2
	GMD411	General Medicine, Dermatol. & Venereal Dis 1	A1 A2	B1 B2 B3	C1 C2 C3	D1 D2
	PDCD531	Community Dentistry 1	A7 A8.1 A8.13 A13 A15	B2 B9 B10 B13	C6 C16 C17	D1 D2 D5



SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 6	RD 322	RestorativeDentistry 2	A6 A8.1 A8.7 A8.6	B7 B14 B10	C1 C8 C9.1	D3 D4 D5
	FPR 322	Fixed prosthodontic2	A16 A8.1 A8.9	B7 B13	C9.1 C9.2	D1 D2 D5 D8
	RPR 322	Removable Prosthodontics 2	A8.1 A8.9	B6 B7 B14	C9.1 C9.2 C9.6 C9.7 C17	D1 D2 D5 D6
	RDE312	Endodontics 1	A6 A7 A8.7	B6 B9 B14	C9.1 C9.2	D1 D2 D6 D8
	GMD422	General Medicine, Dermatology & Venereal Diseases 2	A1 A2	B1B2B3	C1 C2	D1 D2 D3
	PDCD 542	CommunityDentistry 2	A7 A8.1 A8.13 A10 A13	B2 B3 B6 B14	C6 C9.3 C11 C17	D1 D2 D5 D6.1 D7
	OPTH322	Oral Pathology &Forensic Dentistry 2	A4 A5 A7A8.3 A8.4A14	B2 B5 B10 B12	C4 C6	D1 D2 D4 D6 D8
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 7	RD 431	RestorativeDentistry 3	A8.1 A8.7 A8.14	B5 B6 B7 B8 B9	C1 C2 C8 C9.1	D1 D3 D5 D6.1
	FPR 431	Fixed Prosthodontic3	A6 A7 A8.1 A8.9	B5 B7 B14	C2 C9.1 C9.2	D1 D2 D5 D8
	RPR 431	Removable Prosthodontics 3	A8.9 A8.12 A8.14	B5 B6 B7 B10 B14	C3 C4 C5C7 C8 C9.1	D1 D2 D4 D5 D6.1
	RDE 421	Endodontics 2	A4 A7 A8.1 A8.7 A8.12	B2 B4 B5 B14	C2 C3 C6 C9.1 C9.9	D1 D2 D5
	OS 411	Local Anesthesia &Pain Control	A1 A3 A4 A7 A8.14 A11	B1 B2 B11 B12	C2 C10 C11	D1 D3 D5 D7
	OMD 411	Oral Medicine & Diagnosis 1	A2 A6 A7 A8.4 A8.14	B2 B3 B4 B5 B6 B10	C3 C4 C7	D3 D4 D5 D7
	PI 411	Periodontology 1	A4 A5 A6 A7 A8.2 A8.3	B2 B3 B10	C3 C7 C9.8 C16	D1 D2 D6.1
	OR 411	Orthodontics1	A6 A7 A8.1 A8.2	B5 B6	C6 C7	D1 D5 D6
	GSR 411	General Surgery, ENT& Ophth 1	A1 A2 A3 A7 A8.14	B2 B3 B5 B10	C2 C3 C6 C10	D1 D4 D5 D6.1



SE M	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 8	RD 442	Restorative Dentistry 4	A8.1 A8.6 A8.7	B2 B7 B9	C2 C9.4 C9.6	D1 D4 D5
	FPR 442	Fixed Prosthodontic4	A8.5 A8.7 A8.9 A8.14	B7 B9	C3 C9.1 C9.6 C9.7	D1 D3 D5 D8
	RPR 442	Removable Prosthodontics 4	A8.9 A8.12 A8.14	B5 B6 B7 B10 B14	C2 C3 C7 C9.1 C9.2 C9.6 C9.7	D1 D2 D4 D5 D6.1
	RDE 432	Endodontics 3	A8.7	B4 B5 B6 B8	C2 C9.9	D1 D2 D5 D6.1
	OS 422	Oral Exodontia	A8.12 A8.14	B4 B5 B11	C1 C2 C3 C7 C9.5	D1 D2 D4 D5 D6.1
	OMD 422	Oral Medicine2	A7 A8.4 A8.14	B2 B5 B10 B11	C2 C3 C6	D5 D6
	PI 422	Periodontology 2	A4 A5 A6 A7A8.2 A8.3	B2 B3 B5 B10	C2 C3 C9.8 C16	D1 D2 D6.1
	OR 422	Orthodontics2	A6 A7 A8 A13	B2 B5 B6 B10	C3 C6	D1 D5 D6.1
	GSR 422	General Surgery, E.N.T. & Ophthalmology 2	A2 A4 A7 A11	B2 B3 B4 B5 B10	C2 C3 C4 C6	D1 D4 D5 D6.1
SE M	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 9	RD 551	Restorative Dentistry 5	A6 A7 A8.9 A8.7	B6 B7 B14	C1 C9.1 C9.6	D1 D2 D5
	FPR 551	Fixed Prosthodontic5	A7 A8.1 A8.9	B7 B5 B12	C2 C7 C9.1	D1 D2 D5
	RPR 551	Removable Prosthodontics (Advanced) 5	A8.9 A8.12 A8.14	B5 B6 B10B14	C2 C5 C9.1 C9.2 C9.7 C9.10	D1 D2 D4 D5
	RDE 541	Endodontics 4	A8.12 A8.7 A4	B2 B7 B8	C6 C9.6 C9.9	D1 D2 D3 D4
	PDCD 511	Pediatric Dentistry 1	A6 A8.7 A8.8 A8.13	B5 B6 B7 B8 B10 B14	C9.1C9.6 C9.9 C17	D1 D3 D5 D6.1
	OS 531	Oral & Maxillofacial Surgery & DentalImplants	A4 A11	B4 B10	C2 C6 C9.10	D2 D5 D6.1



	OMD 531	Oral Medicine3	A4 A7 A8.4	B2 B5	C2 C4 C6	D5 D6.1 D6.2 D7
	PI 531	Periodontology 3	A6 A7 A8.2 A8.14	B2 B5 B6 B10 B11	C3 C4 C5 C7 C9.8	D1 D2 D4 D5
SEM	Course code	Course title	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skills
Semester 10	RD 562	Restorative Dentistry 6	A8.1 A8.7 A8.9	B5 B7	C9.1 C9.2 C16 C17	D1 D4 D5
	FPR 562	Fixed Prosthodontic6	A7 A8.1 A8.7 A8.2 A8.10 A8.9	B5 B7	C9.6 C9.7	D1 D2 D5 D8
	RPR 562	Removable Prosthodontic s (Advanced) 6	A7 A8.9 A8.12	B6 B7B8	C2 C5 C9.2 C9.7 C9.10	D1 D2 D4
	RDE 552	Endodontics 5	A8.7	B14	C7	D1 D2 D5
	PDCD 522	Pediatric Dentistry 2	A8.6 A8.10 A8.14 A7 A11 A6	B5 B6 B10 B11	C1 C4 C8 C9.4 C9.6 C9.9 C17	D1 D2 D3 D4 D5 D6 D7
	OS 542	Oral & Maxillofacial Surgery & General Anaesthesia	A4 A11	B5 B10	C2 C6 C9.5	D3 D5
	OMD 542	Oral Medicine4	A3 A5 A7A8.3 A8.4 A9 A13	B2 B3 B10	C3C4 C5 C6 C11	D1 D4 D6 D7
	PI 542	Periodontology 4	A8.2	B2 B3 B4 B5 B6 B10 B14	C2 C3 C4 C5 C7 C9.8 C16	D1 D2 D3 D4 D5 D7
Pharos Mandatory Courses	UCS 01	Communication skills	A15	B13		D1 D2 D4 D6
	UEC 01	Computer 1				D6
	UEC 02	Computer 2				D6
	GEN 211	Human rights, Law & Ethics	A14	B12		D4
	UGE 00	English 0	A15			
	UGE 01	English 1	A15			D5 D6
	UGE 02	English 2	A15			D5 D6
	UGE 03	English 3	A15			D5 D6
	UGE 04	English 4	A15			D5 D6
	UGE 05	English 5	A15			D5 D6
	UGA 03	Arabic language				D5 D6



	Internship	A1 A2 A3 A4 A5 A6 A7 A8.1 A8.2 A8.3 A8.4 A8.5 A8.6 A8.7 A8.9 A8.10 A8.11 A8.12 A8.14 A11	B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14	C1 C2 C3 C4 C5 C6 C7 C8 C9.1 C9.2 C9.3 C9.4 C9.6 C9.7 C10 C12 C17	D1 D2 D3 D4 D5 D6 D7 D8
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II. Elective Courses:

Administrative constrains:

The administrative structure is central, which may help achieving the faculty requirements. Flexibility in registration of students extended through the first 2 weeks of each semester.

Students' evaluation for measuring the ILO's

Assessment methods

Different types of assessments are applied including written, oral and practical examinations to evaluate the students' performance in respect to the achievement of program ILOs.

Methods and Rules of Student's Evaluation:

Methods	Program Intended Learning Outcomes
Written exams	Knowledge & Understandings, Intellectual Skills Professionalskills (in case of problem solving /case study)
Oral exams	Knowledge & Understandings, Intellectual Skills General skills Professionalskills
Objective structured clinical /practical exam (OSCE/OSPE)	Knowledge & Understandings, Intellectual Skills, Professional and Practical skills General skills
Practical exams	Knowledge & Understandings, Intellectual skills, Professional and Practical skills, General skills
Research projects/Reports	Knowledge & Understandings, Intellectual Skills, Professional & Practical skills, General skills



☒ Schedule for students' evaluation:

Evaluation	Schedule
Quizzes and Research Projects	Throughout the semester
Midterm Exams	8 th week
Final Practical Exams (laboratory/preclinical/clinical)	13 th -14 th weeks in the fall semesters, 14 th -15 th weeks in the spring semesters
Final Written and Oral Exams	Starting from the 15 th week for the fall semesters, and starting from the 16 th week for the spring semesters

Based on senior students' feedback this year their final written exams were postponed for two weeks in order to allow them finish their CCC cases, which were designed and manufactured exclusively in the newly established digital lab inside the faculty then presented to external and internal committees for evaluation.

Detailed rubrics were distributed among students to allow self-evaluation and enhance performance. Formative exams are uploaded to blackboard platform before mid-term and final exams as a sort of preparation for the students.

Marks allocated 50% for final written, practical, and oral exams and 50% for mid-term exams, participation, course work and quizzes. Assessment methods in the faculty are mostly compatible with those criteria needed for evaluation of ILOs for each course.

The examination grading system is clearly defined for the students.

Examiner boards consist of staff members who share in teaching the course and external examiners who teach the course in other universities.

Final grades are announced within a week after the ending of exams and allocated on the faculty web site. Any student has the right to review his grades after filling complain application form. The responsibility of this process is taken by the Vice-Dean of education and students affairs.

Internal Reviewer Report:

Available

 +

Not Available

Internal auditing Revision is performed by the internal auditing committee at quality assurance unit and internal auditing committee by the quality assurance center at pharos university in alexandria.

Learning resources

☒ Staff members to students' ratio:

Student to staff ratio is within the accepted range, however new staff is required for the new academic year upon increasing number of registered students.

☒ Matching of faculty members' specialization to program needs:

Appropriate

 +

To some extent

Not Appropriate



- All faculty members are specialized at the field they teach and are at least Ph.D. holders. Faculty assistants are either Master holders or preparing for the Master. All faculty members are research active.
- Owing to the shortage in some specialties, some faculty member staff are hired as parttimers.

☒ Adequacy of library/ computer facilities:

For students: Adequate

For staff members and their assistants: Adequate

- There are 317 updated scientific references for the different fields of interest in the faculty of dentistry including textbooks, journals, articles, and theses in addition to the electronic library World e- book library, EBESCO information services, Jstor.
- Three librarians are devoted to library and supplying information.
- The Egyptian Knowledge Bank is available for both students and staff members.
- There are 38 computers available in the library access to the internet in addition to free wireless internet to allow all students to use their own laptops.
- There are four library computers operated by the library specialists, where books and references information are available.
- The lighting and ventilation of the library are good.

☒ Adequacy of laboratories

Appropriate + To some extent Not Appropriate

- A new digital lab was established inside the faculty to allow undergraduate and post graduate students to design and fabricate their restorations, the lab comprises the most recent 3d technologies in dentistry, as:
- Specialized labs are available according to the various departments of the faculty for the students and the researchers.
- The staff members of the faculty and their assistants exert a lot of effort to organize the work inside the labs to suit the needs of the students.
- The process of education and training within the labs is characterized by accuracy and efficiency.
- The technical staff of all labs are highly qualified, and they attend special training workshops for maintenance and optimum safety of the labs.
- Availability of water and diode laser devices (Soft and hard laser) and CAD/CAM milling machine to be used in students' research.



☒ Adequacy of Research laboratories:

Experimental animal research laboratory is available.

- Air-conditioned building consists of four rooms equipped with shelves to accommodate the animal cages.
- Male & female rats of different weights are available.
- The technical staff of the animal house is highly qualified to ensure optimum care, life support, nutrition, reproduction and hygiene of the animals.
- The labs are available for research projects of undergraduates, post-graduates and staff members.

☒ Adequacy of field / practical training resources

- According to the governmental decision in 2019, the Egyptian Health Council has set the National examination for the practice of medicine EMLE for the dental interns starting from class 2023.

In the light of the new mandatory exam the faculty has prepared a training program to orient the interns regarding the exam rules and conditions discussing registration, payment and timetable (Mockup, simulation and real exam).

Certified workshops were organized in collaboration with faculty of applied health sciences technology, Pharos University to train them on CPR, first aid measures, management of medically compromised patients and medical emergencies. The intern's satisfaction questionnaire analysis showed high satisfaction rates regarding the setting, preparation and trainers' evaluation. Also training needs were recorded for future workshops.

- There is a training summer program for the 4th year students to prepare the students for the 5th academic year.

The following items are to be considered and corrected according to the action plan:

1. Increase the facilities in the lab which mainly include instruments, tools and glassware.
2. All classrooms & laboratories need to be air conditioned.
3. More data show devices are required for the lab-work demonstration.
4. Increase the number of new microscopes and slides.
5. Providing more quantity of chemicals.
6. Cameras for demonstrations are needed to be able to do life demos and workshops on different rotary systems.
7. More screens/projectors are needed

☒ **Adequacy of any other program needs:**

A well-established bylaws program for master's degree in 4 different specialties including: Prosthodontics and Dental Implantology, Endodontics, Restorative and Esthetic Dentistry, and Pediatric Dentistry, as well as clinical diploma are available. Such bylaws are accredited.

☒ **Trainings and Development of performance**

- All academic staff members and assistant staff attend at least 2 EDC workshops each year.
- The faculty has organized several workshops and trainings to raise the awareness and enhance the performance of students and staff, this included:
 - “Sustainability in everyday dental practice” 3 workshops which were held under the umbrella of Green pharos initiatives for an eco-friendly university, aiming to raise the awareness of students SDGs, meaning of sustainability and green dentistry, environmental impacts of dental practice, methods, innovative technologies and products to enhance sustainability in dental practice and the relation between climate change and health.
 - “Curriculum development in the era of sustainable dentistry” discussing the importance of sustainability, its application in the field and how to embed sustainable development in the dental curriculum.
 - “Dental Business model” to prepare students for post graduate market, enhance their capabilities to face various challenges in the clinic, types of different post graduate studies, clinic management, new parodontal jobs.
 - “CPR and medical emergencies” workshops for dental interns to prepare them for the qualifying exam.
 -

☒ **Quality management**

➤ **Availability of regular evaluation and revision system for the program:**

The NARS parameters are applied in all courses.

- An internal auditing committee headed by program coordinator has been established to evaluate and revise the educational program and the newly launched programs.
- Questionnaires are distributed to a sample of students from different levels to evaluate the courses, questionnaires to evaluate the program is distributed for graduates and Stakeholders. The QAU informs the course coordinator and head of departments about the statistical analysis of the results of students' questionnaires (student opinion in the course and the assistant staff members teaching the course) and students' remarks in order to make the appropriate action plan. Moreover, the quality assurance center informs the course instructors with the statistical analysis of the results of students' questionnaires (student opinion in the course and staff members teaching the course) and students' remarks in order to make the appropriate action plan.
- The Quality Assurance Unit reviewed the course specifications of fall and spring semesters courses.
- As part of the follow-up of the Quality Assurance Unit for the exam and control work, the Control Review Committee was assigned to evaluate the control files of the different levels. The Committee also carried out a technical and formal examination of the exam paper for the academic year 2023/2024 and prepared a report regarding this examination which was approved in the faculty council.
- Quality Assurance Center revised all the files concerned with the program and courses and sent their reports for correction and follow-up.



➤ **Effectiveness of Faculty and University Laws and Regulations for Progression and Completion**

- The laws and regulations for progression and completion are clear and stated in the bylaws for the undergraduate students, faculty of Dentistry, Pharos University in Alexandria. It is announced in the student handbook and on the web site of the faculty.
- Forming control committees for each academic semester so that the formation does not conflict with the relatives of the teaching staff members of the faculty, as well as emphasizing the lack of supervision or participation of the faculty member in preparing the examination paper or following up the grades of the course work in case that a relative is present in the academic year, and that to ensure that there are no conflicts of interest.

☒ **Effectiveness of program internal evaluation system:**

Faculty response to student and internal evaluations:

The internal evaluation report as well as the questionnaires distributed between the students are analyzed. The results are discussed in the faculty council, by the head of departments and the quality assurance unit. The recommendations and proposals are interpreted into a collective action plan.

New bylaws development committee:

A specialized committee was formed to prepare and develop the regulations. The committee compared the current regulations with those of other similar universities, both private, public, and governmental, within and outside Egypt. The committee also held several meetings with faculty members from various universities (Alexandria, Tanta, Mansoura) to gather opinions and suggestions, in addition to conducting student surveys. The resulting proposals were summarized and underwent a comprehensive internal review before submitting the final proposal to the university administration and then to the Supreme Council of Universities.

➤ **Proposals for program development**

1. Improving students' assessment methods and problem-solving approaches by providing training workshops to staff members from the educational development center (EDC) example: Exams and student's evaluation, teaching learning strategies and from the Assessment and evaluation center example: the blue print workshop.
2. Improving the provision of exams through preparing exam blueprint for better distribution of questions over course items & informing the students about the criteria of assessments (rubrics) and distribution of marks (continuous assessment, oral, formative and written exams) prior to each course.
3. Arranging pre- scheduled final revisions at the end of the academic year.
4. Improving & updating the website of faculty.
5. Blended Learning: All lectures and practical/tutorial sessions were given on campus according to the prepared timetables with aid of using blackboard collaborate platform to upload lectures/practical/tutorial notes, as well as formative exams/assignments/videos/scientific resources. Discussions are permitted along the platform where students ask questions to directly to

their instructors. Non-traditional teaching methods; flipped classroom, brain storming, peer learning, videos, gaming and self-learning were all used.

6. The role of the Curriculum and Program Development Committee is to gather suggestions for program improvement from all course instructors in different departments, also communicate with the university regarding any updates in the regulations, review external/internal reviewers reports and accreditation authorities' comments and students' feedback for further development plans.

☒ Suggestions for improving the program

	Suggestions for improving the program	Responsibility	Timing
1- Teaching and Assessment methods	a- Increase the interactive learning methods during lectures via student activities .	- Head of department -Course coordinator	During 2024/2025
	b- Modify some of the course content (including information about digital dentistry & AI as well as removing outdated conventional methods)	- Head of department -Course coordinator	During 2024/2025
	c-Update the lab manual and experiments to correlate with the lectures.	- Head of department -Course coordinator	During 2024/2025
	d-Rephrasing the lectures some of the ILOs in course specs and revision of the action verbs, as well as the assessment methods section (including assessment rubrics).	- Course coordinator - Quality Unit	During 2024/2025
	e-Contact the timetable committee to ensure that the exam timetable issuitable.	-Head of department -Timetable committee	During 2024/2025
	f-Practical sessions are recommended tobe organized in small groups of students to achieve a better learning outcome.	- Course coordinator	During 2024/2025
	g-Rubrics for each practical session for continuous assessment that are announced for students	- Course coordinator - Head of department	During 2024/2025

	<p>h-Prepare dental health education videos targeting different populations and patients continuously displayed in patient waiting rooms and online as a graded activity prepared by undergraduate students</p>	<ul style="list-style-type: none"> - Course coordinator - Head of department 	<p>During 2024/2025</p>
<p>2- Administration and organization</p>	<p>a-Increase the number of staff members and demonstrators to compensate with the increasing number of students (hiring part time staff in deficient clinical departments).</p>	<ul style="list-style-type: none"> - Head of departments - Faculty Dean - Administration 	<p>During 2024/2025</p>
	<p>b- Modify tools and equipment in labs and clinics including:</p> <p>b.1 Provide computers for each department</p> <p>b.2 Increase the facilities in the lab which mainly include instruments, tools, and glassware.</p> <p>b.3 All classrooms & laboratories need to be air conditioned.</p> <p>b.4 More data show devices are required for the lab-work demonstration.</p> <p>b.5 Increase the number of new microscopes and slides, and number of 3D models for oral surgery department</p> <p>b.6 Provide more quantity of chemicals.</p> <p>b.7 Cameras for demonstrations are needed to be able to do life demos and workshops on different rotary systems.</p> <p>b.8 Provide periodontal department with recent diagnostic equipment</p> <p>b.9 Provide a video conference room connected with clinics for live streaming of surgeries</p> <p>b.10 Utilize artificial intelligence technology to create simulation labs for preclinical practice and assessment.</p> <p>b.11 Implement QR-code technology to record student attendance</p>	<p>Dean and university administration</p>	
<p>3-Study plan</p>	<p>Suggestions for the study plan in the process of approval:</p> <p>a. Increase passing percentage in each course</p> <p>b. Reduce total credit hours</p> <p>c. Approve Comprehensive Clinical Care as official courses (CCC1, CCC2) to be taught in Fall and Spring Semesters for the senior students.</p> <p>d. Distribute Pediatric Dentistry Courses</p>	<ul style="list-style-type: none"> - Head of departments - Faculty Dean - Administration 	<p>During 2024/2025</p>

	<p>(PDCD 511 and PDCD 522) over the 4th and 5th years.</p> <p>e. Add Restorative Dentistry and Ethics in Dentistry courses to the 2nd year curriculum.</p> <p>f. Increase the C.H for Restorative Dentistry course from 3to 4 hours in the 3rd year.</p> <p>g. Reduce CHs in Removable Prosthodontic Course from 4 to 3 hours , and the Oral Surgery course from 3 to 2 hours.</p> <p>h. Reduce CHs of basic science courses including (Oral Biology, Oral Pathology, Dental Anatomy) from 3 to 2 hours.</p> <p>i. Combine Zoology and Botany courses into one Course (Cell Biology) with 4 CH over 2 semesters.</p> <p>j. Microbiology and Immunology courses to be taught as Tutorial not practical.</p> <p>k. Add (Quality in Dentistry) as an elective course.</p>		
<p>4- Internship and training skills</p>	<p>a. Based on the students’ suggestions it is recommended to add several basic and advanced trainings focusing on:</p> <p>b. Advanced life support, medical emergencies in the dental setting, management of medically compromised patients, pharmacology applied in dentistry, CBCT interpretation, Orthognathic surgeries</p> <p>c. Research methodologies Measuring blood glucose level, arterial blood pressure and establishing an intravenous line</p> <p>d. Management of dental clinics, including license requirement and quality assurance</p>	<p>- Center of Excellence</p> <p>Training committee in quality assurance unit</p>	<p>During 2024-2025</p>



Quality Assurance Center
(QAC)
مركز ضمان الجودة

Pharos University
جامعة فاروس



Head of Quality Assurance Unit: Dr. Maha Adel

Program coordinator: Prof. Mervat Khalil

Faculty Dean: Prof. Amr Abdallah

Date: 10/9/2024