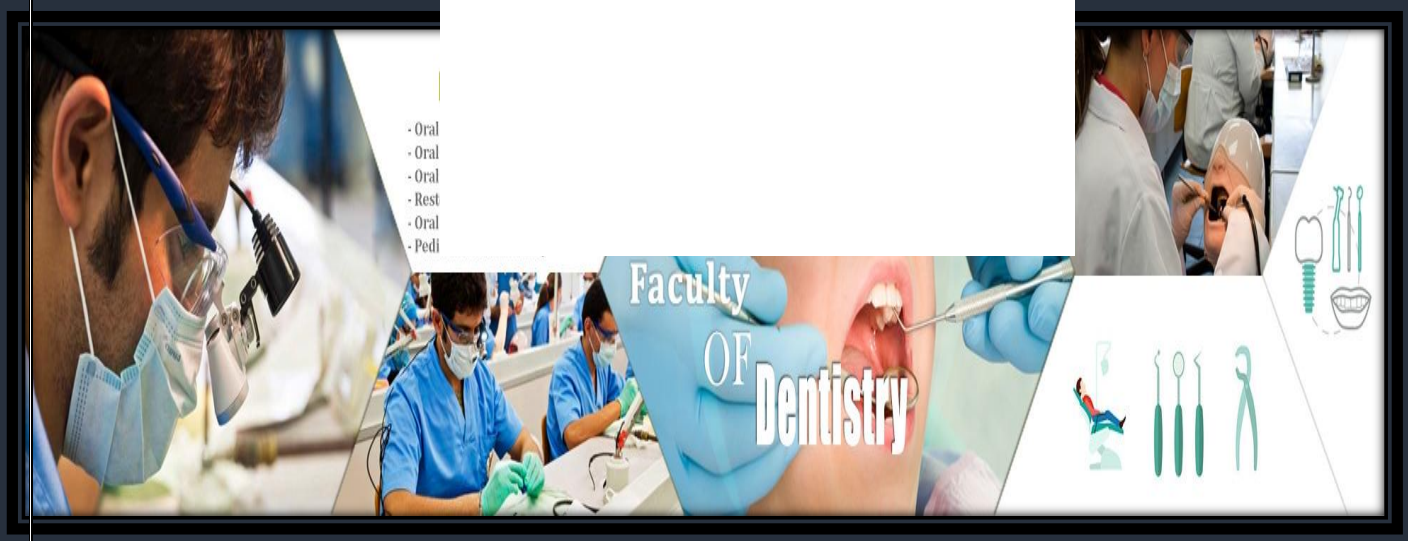
- Oral
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Dentistry

# Pharos University in Alexandria

# Faculty of Dentistry

# Program Report
# 2017-2018

- **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)<br>بكالوريوس طب و جراحة الفم و الأسنان | |
| **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** | 64 hrs |
| | | **Medical & Dental Sciences** | 123 hrs |
| | | **Complementary Sciences** | 12 hrs |
| | | **Discretionary Subjects** | 10 hrs |
| | | **TOTAL** | 209 hrs |
| **6** | **Academic departments:** | 1. Oral Biology | |
| | | 2. Oral Pathology | |
| | | 3. 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** | Members of the committee were selected and approved in the departmental councils meeting on the following basis:<br><br>BASIC STANDARDS:<br>1-Should be a faculty member in one of the prestigious academic institutions and in the same field of specialization or majors (professor).<br>2-Has the academic knowledge, professional experience and appropriate skills associated with the field of specialization being assessed.<br>3-Has a good reputation and has previous experience as an external examiner.<br><br>**Conflict of interest**<br>1-The external examiner should not be working at the present time in any other faculty within Pharos University.<br>2- The external examiner should not have previously worked at Pharos University. |
| **8** | **System of external examiners:** | Available for the final academic year (Semester 9 & 10). |

## B- Specialized Information

### Statistical information

Students' distribution among the five years/ academic year:
Total number of students registered for the academic year 2017/2018:

| Student academic level | Students number |
|---|---|
| Freshmen | 402 |
| Sophomore | 408 |
| Junior | 417 |
| Mid-Senior | 372 |
| Senior | 490 |
| Total | 2089 |

- **No. of students completing the program during 2017/2018:**

| Academic year | Total no of students | No of graduate students | % of graduate students |
|---|---|---|---|
| **2017/2018** | 420 | 296 | 70.5% |
| **2016/2017** | 409 | 344 | 84.1% |
| **2015/2016** | 413 | 297 | 71.9% |

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

| Student academic level | Students number |
|---|---|
| **2017/2018** | 420 |
| **2016/2017** | 409 |
| **2015/2016** | 413 |
| **2014/2015** | 377 |

***The number almost remained constant throughout the past 4 years.**

- **Grading of the academic year 2017/2018:**

| 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** | 34.86 | 38.8 | 28.66 | 25.65 | 17.34 | 17.47 | 6.59 | 5.94 | 8.59 | 8.28 | 3.96 | 3.86 |
| **Sophomore** | 51.01 | 45.69 | 26.07 | 24.78 | 12.5 | 13.88 | 3.73 | 4.70 | 5.08 | 8.4 | 1.6 | 2.54 |
| **Junior** | 34.59 | 28.88 | 30.69 | 37.04 | 20.35 | 19.23 | 5.77 | 5.15 | 6.92 | 7.73 | 1.69 | 1.98 |
| **Mid-Senior** | 27.7 | 29.56 | 36.81 | 38.66 | 21.67 | 21.56 | 5.45 | 4.85 | 6.38 | 4.15 | 1.99 | 1.23 |
| **Senior** | 18.49 | 20.9 | 39.6 | 44.81 | 26.91 | 22.25 | 7.17 | 5.64 | 6.78 | 5.27 | 1.06 | 1.08 |

## Academic standards

☒ **Reference Academic Standards:**

## Intended Learning Outcomes of Program (ILOs):

### Knowledge and Understanding:

**By completion of the program, students should be qualified 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:

- A.8.1 The present theoretical and practical knowledge regarding the composition, manipulation and properties of all the dental materials used in the field of dentistry.
- A.8.2 The normal structure of periodontium and variable periodontal diseases.
- A.8.3 The microbiological & immunological aspects of different diseases and their oral manifestations, along with, diseases of concern in the dental practice.
- A.8.4 The different oral lesions, their pathogenesis and differential diagnosis.
- A.8.5 The basic principles or radiology, dental x-ray machines and interpretation of radiographs

A.8.6 Local anesthesia, pain and anxiety control.

A.8.7 The process of caries formation and progression, together with the basic principles of tooth restoration and root canal treatment.

A.8.8 The types of orthodontic problems, principles of diagnosis and treatment of various cases of malocclusion.

A.8.9 The principles and advances in restoring teeth by fixed and removable prosthodontics

A.8.10 The necessary information in behavior management, diagnosis, prevention and treatment of patients in primary, mixed, and early permanent dentition in Pediatric dentistry,

A.8.11 The basic Pharmacology and effects of drugs and therapeutics.

A.8.12 The types of oral and maxillofacial diseases and defects, together with the principles of their surgical and prosthetic management protocols.

A.8.13 The concept of Dental Public Health, epidemiology of several dental diseases, methods of oral health education and preventive dentistry.

A.8.14 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.

## Intellectual Skills:

**By completion of the program, students should be qualified 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. Justify specific items of infection control required for safe working environment.

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. Correlate 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. Investigate 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

## Professional and Practical Skills:

**By completion of the program, students should be qualified to:**

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. Perform systematic clinical examination including general, extra-oral, & intraoral procedures;

C4. Practice 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 disease process.

C7. Practice 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. Perform a range of pre-clinical and clinical procedures which are within the scope of general dentistry, including:

- C.9.1 Use properly different dental materials and handle different instruments and equipment.
- C.9.2 Operate the steps of oral surveying and designing then the different laboratory procedures for preparation of various restorations/appliances.
- C.9.3 Practice application of oral preventive procedures
- C.9.4 Practice application of different local anesthetic techniques.
- C.9.5 Practice extraction of teeth and removal of roots when necessary.
- C.9.6 Practice different types of teeth preparations for various types of restorations.
- C.9.7 Practice Construction of fixed and/or removable Prosthetic appliances for missing teeth and various procedural preparatory aids (trays, record blocks …etc.)
- C.9.8 Practice treatment of gingival & periodontal diseases.
- C.9.9 Practice different techniques of root canal preparation, obturation, as well as, peri-radicular lesions surgical and non-surgical management.

C.9.10 Practice implant insertion, and superstructure fixed restoration/ over dentures in recommended cases.

C10. Manage dental and medical emergencies which may occur in dental practice and perform basic life support measures.

C11. Prescribe appropriate pharmaceutical, therapeutic and preventive agents taking into consideration drug and patient factors.

C12. Monitor patients to ensure quality-control comprehensive dental management.

C13. Manipulate Electron and Light microscope for analysis of various, histological and pathological preparations, anatomical sections, as well as, microorganisms and microbiological smears.

C14. Apply laboratory procedures for classifying different types of enzymes, macromolecules, biochemical preparations, as well as, inorganic chemical reactions.

C15 Illustrate histological and anatomical 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 dental and oral problems.

**General Skills:**

**By completion of the program, students should be qualified to:**

Practice teamwork skills appropriate for working within a multi-skilled team.

D2. Apply efficient flexible Communication Skills with different multicultural & diverse groups of community in general.

D3. Accept constructive criticism with positive reaction and self -valuation of professional abilities, as well as, performance

D4. Appraise ethical professional attitude including confidentiality, compassion, empathy, integrity, responsibility & tolerance.

D5. Improve students' innovative & creative skills.

D6. Use available technologies & resources to ensure professional development & life-long learning.

D7. Recognize the professional guidelines to ensure quality assurance in the clinical work.

D8. Practice managing of workload and 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.

### *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 (denied 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, the 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 complain their results to the dean's office, and their results are revised by the control committee and the 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:***

- Not available.

***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; ad 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.

☒ **Program Reference Standards:**

National academic reference standards NARS 2009

☒ **Availability and adequacy of program handbook**

Available

☒ **Continuous Program Revision System**:

Annual

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

### A- Matching with NARS

| Sciences | NARS Hours % | Faculty Curriculum Hours % |
|---|---|---|
| Basic Science Courses | 28-32% | 30.6% |
| Medical & Dental Sciences | 54-62% | 58.9% |
| Complementary Sciences | 5-8% | 5.7% |
| Discretetionary Subjects | 6-8% | 4.8% |

### B-Matching with Courses

**The following courses are being taught using the following ILOs:**

### I. Required courses:

| N° | Course code | Course title | Knowledge and Understanding | Intellectual Skills | Professional Skills | General Skills |
|---|---|---|---|---|---|---|
| Semester 1 | CHM 111 | Chemistry 1 | A12 | B15 | C14 | D1 D5 D6 |
| | OBD 111 | Dental Anatomy 1 | A6 | B10 B13 | C15 | D1 D2 D4 D5 D8 |
| | BCM 112 | Biochemistry 1 | A1 A2 A12 | B1 B2 B9 B10 | C2 C4 | D1 D2 D5 D6 |
| | ZOL 111 | Zoology 1 | A1 A2 | B1 | C13 C14 | D2 D6 D8 |
| | BOT 111 | Botany & Genetics 1 | A1 A2 A4 | B2 B9 B15 | C6 | D2 D6 |
| | | | | | | |
| Semester 2 | CHM 122 | Chemistry 2 | A10 A12 | B9 B15 | C14 | D1 D2 |
| | OBD 122 | Dental Anatomy 2 | A1 A6 | B4 B12 | C15 | D1 D6 D8 |
| | BPH 111 | Biophysics | A1 A8.5 | B1 B3 | C4 C10 | D1 D2 D6 |
| | ZOL 122 | Zoology 2 | A1 A2 A4 A5 | B1 B15 | C6 C13 C15 | D2 D6 D8 |

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|---|---|---|---|---|---|---|
| | BOT 122 | Botany & Genetics 2 | A2 A9 | B15 | C13 C14 | D2 D5 D6 |
| | | | | | | |
| Semester 3 | RDM 211 | Dental Biomaterial 1 | A8.1 A10 | B14 | C9.1 | D1 D2 D6 |
| | BCM 221 | Biochemistry 2 | A1 A2 A12 | B1 B2 B9 B10 | C14 | D1 D2 D5 D6 |
| | PHY 211 | General Physiology 1 | A1 A2 A3 | B1 B2 B3 | C16 | D1 D2 D3 |
| | HST 211 | General & Systemic Histology 1 | A1 A6 | B1 B10 | C13 | D1 D2 D4 D6 |
| | ANT 211 | Human Anatomy 1 | A1 A2 | B1 B10 | C3 C15 | D1 D2 D6 |
| | PTH 212 | General Pathology 1 | A3 A4 A5 | B2 | C6 C13 | D1 D2 D6 |
| | | | | | | |
| Semester 4 | ANT 222 | Human Anatomy 2 | A1 A2 | B1 B10 | C15 | D1 D2 D6 D8 |
| | PHY 222 | General Physiology 2 | A1 A2 A3 | B1 B2 B3 | C16 | D1 D2 D3 |
| | HST 222 | General & Systemic Histology 2 | A1 A6 | B1 B10 | C13 | D1 D2 D4 D6 |
| | OB 212 | Oral Biology & Embryology 1 | A1 A6 A8.2 | B1 B2 B13 | C13 C15 | D1 D6 D8 |
| | RDM 222 | Dental Biomaterial 2 | A8.1 A10 | B14 | C9.1 | D1 D2 D6 |
| | | | | | | |
| Semester 5 | RD 311 | Restorative Dentistry 1 | A6 A8.1 A8.7 | B7 | C9.1 C9.6 | D1 D2 D4 D7 |
| | FPR 311 | Fixed Prosthodontic 1 | A6 A8.1 A8.9 | B7 B14 | C9.1 C9.2 C9.7 | D1 D3 D5 D6 D8 |
| | RPR 311 | Removable Prosthodontics 1 | A1 A2 A8.1 A8.9 | B1 B7 B14 | C9.1 C9.2 C9.7 | D1 D2 D4 D5 D6 |
| | MCR 311 | General Microbiology & Immunology 1 | A2 A3 A5 A8.3 A8.4 A9 | B5 B6 B13 | C6 C11 C13 | D1 D5 D6 |
| | PHM 311 | Pharmacology 1 | A8.6 A8.11 A12 | B11 | C11 | D1 D6 D8 |
| | OPTH 311 | 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 A2 A6 | B1 B10 | C13 C15 | D1 D6 D8 |
| | PTH | General | A3 A4 A5 | B2 | C13 C15 | D1 D2 D6 |

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|---|---|---|---|---|---|---|
| | 321 | Pathology 2 | | | | |
| | | | | | | |
| Semester 6 | RD 322 | Restorative Dentistry 2 | A8.1 A8.6 | B5 B6 B7 | C9.1 C9.6 | D1 D4 D6 |
| | FPR 322 | Fixed prosthodontic 2 | A6 A8.1 A8.9 | B1 B7 B14 | C9.1 C9.2 C9.6 C9.7 | D1 D2 D3 D5 |
| | 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 |
| | RDE 312 | Endodontics 1 | A6 A7 A8.7 | B6 B9 B14 | C9.1 C9.2 | D1 D2 D6 D8 |
| | MCR 322 | Oral Microbiology & Immunology 2 | A5 A8.3 A8.4 A9 | B5 B6 B13 | C6 C11 | D1 D5 D6 |
| | PHM 322 | Pharmacology 2 | A3 A8.11 A12 | B11 | C10 C11 | D1 D2 D4 D6 |
| | OPTH 322 | Oral Pathology & Forensic Dentistry 2 | A4 A5 A7 A8.3 A8.4 A14 | B2 B5 B10 B12 | C4 C6 | D1 D2 D4 D6 D8 |
| | CD 312 | Dental Clinic Management & Infection Control | A8.3 A9 A10 A16 | B3 B8 B12 | C1 C2 C7 | D3 D4 D6 D8 |
| | OMR 312 | Dental Radiology | A8.5 A16 | B4 B5 B14 | C3 C4 C16 | D1 D4 D6 |
| | | | | | | |
| Semester 7 | RD 431 | Restorative Dentistry 3 | A7 A8.1 A8.6 A8.14 | B2 B5 B6 B7 B14 | C2 C3 C9.1 | D1 D2 D4 |
| | FPR 431 | Fixed Prosthodontic 3 | A8.1 A8.9 A8.14 | B6 B7 B14 | C9.1 C9.2 C9.6 C9.7 | D1 D3 D5 D8 |
| | RPR 431 | Removable Prosthodontics 3 | A6 A8.9 A8.14 A9 | B4 B5 B6 B7 B8 | C1 C2 C3 C4 C5 C7 C8 C9.1 C9.2 C9.7 C12 C17 | D1 D2 D4 D5 D6 D8 |
| | RDE 421 | Endodontics 2 | A4 A7 A8.1 A8.7 A8.14 | B2 B4 B5 B6 B9 B10 B14 | C1 C9.1 C9.9 | D1 D2 D5 D6 D8 |
| | OS 411 | Local Anaesthesia & Pain Control | A8.6 A11 A12 | B2 B3 B5 B7 B9 B11 | C2 C3 C4 C5 C7 C8 C9.4 C11 C12 | D1 D4 D5 D6 |
| | OMD 411 | Oral Medicine & Diagnosis 1 | A7 A8.14 | B1 B2 B3 B10 | C2 C3 C4 C5 C6 C7 | D1 D2 D4 D6 |
| | PI 411 | Periodontology 1 | A4 A5 A6 A7 A8.2 A8.3 | B2 B3 B5 B10 | C1 C2C1 C3 C4 C5 C7 C9.8 C16 | D1 D2 D6 D8 |
| | OR 411 | Orthodontics 1 | A6 A7 A8.8 | B2 B5 B6 B10 | C9.2 | D1 D3 D4 D5 D6 D8 |
| | GMD 411 | General Medicine, Dermatol.& | A1 A2 | B2 B3 B5 B6 B10 | C2 C3 C4 C5 C6 C16 | D1 D2 |

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|---|---|---|---|---|---|---|
| | | Venereal Dis 1 | | | | |
| | GSR 411 | General Surgery, ENT & Ophth 1 | A3 A7 A11 | B2 B3 B5 B10 | C2 C3 C4 C8 C10 C11 | D1 D4 D5 D6 D8 |
| | | | | | | |
| Semester 8 | RD 442 | Restorative Dentistry 4 | A8.1 A8.7 A16 | B5 B7 B14 | C3 C4 C8 C9.1 C9.6 C17 | D1 D2 D6 D8 |
| | FPR 442 | Fixed Prosthodontic 4 | A6 A8.1 A8.9 | B7 B14 | C9.1 C9.7 | D1 D2 D4 D8 |
| | RPR 442 | Removable Prosthodontic s 4 | A6 A8.9 A8.14 A14 A16 | B4 B5 B6 B7 B8 | C1 C2 C3 C4 C5 C7 C8 C9.1 C9.2 C9.7 C12 C17 | D1 D2 D4 D5 D6 D8 |
| | RDE 432 | Endodontics 3 | A3 A5 A7 A8.3 A8.5 A8.7 A12 | B2 B4 B14 | C3 C4 C9.1 C9.9 C10 C11 C17 | D1 D2 D6 D8 |
| | OS 422 | Oral Exodontia | A8.12 A8.14 | B4 B5 B11 | C2 C3 C4 C7 C9.5 | D1 D4 D5 D6 D8 |
| | OMD 422 | Oral Medicine 2 | A3 A5 A7 A8.14 | B1 B2 B3 B10 | C2 C3 C4 C5 C6 C7 | D1 D2 D4 D6 |
| | PI 422 | Periodontolog y 2 | A4 A5 A6 A7 A8.2 A8.3 | B2 B3 B5 B10 | C1 C2 C3 C4 C5 C7 C9.8 C16 | D1 D2 D6 D8 |
| | OR 422 | Orthodontics 2 | A6 A7 A8.8 | B2 B5 B6 B10 | C3 C6 | D1 D2 D5 D6 D8 |
| | GMD 422 | General Medicine, Dermatology & Venereal Diseases 2 | A3 A4 A5 | B2 B3 B5 B6 B10 | C2 C3 C4 C5 C6 C16 | D2 D6 |
| | GSR 422 | General Surgery , E.N.T. & Ophthalmolog y 2 | A3 A7 A11 | B2 B3 B5 B10 | C2 C3 C4 C8 C10 C11 | D1 D4 D5 D6 D8 |
| | | | | | | |
| Semester 9 | RD 551 | Restorative Dentistry 5 | A7 A8.1 A8.7 | B5 B10 | C3 C7 C9.1 C9.6 C12 | D1 D2 D5 D6 D8 |
| | FPR 551 | Fixed Prosthodontic 5 | A8.1 A8.7 A8.9 | B6 B14 | C3 C7 C9.1 C9.7 C12 | D1 D2 D4 D5 D8 |
| | RPR 551 | Removable Prosthodontic s (Advanced) 5 | A8.9 A8.12 A8.14 | B5 B6 B7 B10 B14 | C2 C3 C4 C5 C6 C7 C9.1 C9.7 C12 | D1 D2 D4 D5 D6 |
| | RDE 541 | Endodontics 4 | A8.4 A8.7 A8.9 | B2 B4 B5 B7 B9 B10 B14 | C1 C2 C3 C4 C5 C6 C7 C9.6 C9.8 C9.9 C10 C11 | D1 D2 D3 D4 D5 D6 D8 |
| | PDCD 511 | Pediatric Dentistry 1 | A2 A4 A5 A6 A7 A8.6 A8.10 A8.14 | B5 B6 B9 B10 B13 | C2 C4 C6 C8 C9.1 C9.2 C9.6 | D1 D3 D5 D6 D8 |
| | PDCD 531 | Community Dentistry 1 | A7 A8.10 A8.13 A13 A15 | B2 B9 B10 B13 | C6 C16 C17 | D1 D2 D5 |

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|---|---|---|---|---|---|---|
| | OS 531 | Oral & Maxillofacial Surgery & Dental Implants | A1 A3 A4 A5 A7 A8.3 A8.4 A8.6 A8.12 A8.14 A11 | B3 B4 B5 B7 B10 B11 | C2 C3 C4 C5 C6 C9.3 C9.4 C10 | D1 D2 D5 D6 D8 |
| | OMD 531 | Oral Medicine 3 | A4 A5 A7 A8.3 A8.4 A9 | B3 B4 B5 B8 B9 B10 | C1 C2 C3 C4 C5 C6 C7 C11 C12 | D1 D2 D3 D4 D5 D6 D7 |
| | PI 531 | Periodontology 3 | A4 A5 A6 A7 A8.2 A8.3 | B2 B3 B5 B10 | C1 C2 C3 C4 C5 C7 C9.8 C16 | D1 D2 D3 D4 D5 D6 D7 D8 |
| | | | | | | |
| Semester 10 | RD 562 | Restorative Dentistry 6 | A8.1 A8.5 A8.7 A8.9 | B2 B4 B5 B6 B7 | C4 C7 C9.1 C9.2 C9.6 C12 C17 | D1 D2 D3 D4 D5 D6 D7 D8 |
| | FPR 562 | Fixed Prosthodontic 6 | A8.1 A8.9 | B5 B7 B14 | C7 C9.1 C9.7 C9.10 C12 C17 | D1 D2 D3 D4 D5 D6 D7 D8 |
| | RPR 562 | Removable Prosthodontics (Advanced) 6 | A8.9 A8.12 A8.14 | B1 B5 B6 B7 B10 B14 | C2 C3 C4 C5 C6 C7 C9.1 C9.7 C9.10 C12 | D1 D2 D3 D4 D5 D6 D7 D8 |
| | RDE 552 | Endodontics 5 | A3 A8.1 A8.7 | B5 B10 B14 | C7 C9.1 C9.9 C12 C17 | D1 D2 D5 D6 D7 D8 |
| | PDCD 522 | Pediatric Dentistry 2 | A3 A4 A6 A7 A8.8 A8.10 | B2 B3 B5 B6 B9 | C3 C4 C6 C8 C9.4 C9.6 C12 | D1 D2 D4 D5 D6 D8 |
| | PDCD 542 | Community Dentistry 2 | A7 A8.1 A8.10 A8.13 A10 A13 | B2 B3 B6 B14 | C6 C9.3 C11 C17 | D1 D2 D6 D7 |
| | OS 542 | Oral & Maxillofacial Surgery &General Anaesthesia | A1 A3 A4 A5 A7 A8.3 A8.4 A8.6 A8.12 A8.14 A11 | B3 B4 B5 B7 B10 B11 | C2 C3 C4 C5 C6 C9.3 C9.4 C10 | D1 D2 D5 D6 D8 |
| | OMD 542 | Oral Medicine 4 | A3 A4 A5 A7 A8.3 A8.4 | B2 B3 B10 | C3 C5 C6 C16 C17 | D1 D2 D6 |
| | PI 542 | Periodontology 4 | A4 A5 A6 A7 A8.2 A8.3 | B2 B3 B5 B10 | C1 C2 C3 C4 C5 C7 C9.8 C16 | D1 D2 D3 D4 D5 D6 D7 D8 |
| | | | | | | |
| 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 |

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|---|---|---|---|---|---|---|
| | 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 |
| **II. Elective Courses:** | | | | | | |
| | ELC 02 | Forensic Dentistry | A14 A15 A16 | B5 B12 B13 B15 | C4 C5 C13 C17 | D1 D2 D5 D6 |
| | ELC 01 | Ethics | A14 A16 | B12 | C7 C12 C17 | D1 D4 D6 |
| | ELC 03 | Photography | A6 A7 A8.14 | B2 B5 B6 B10 | C3 C6 | D1 D2 D6 D8 |

## ☒ 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 and Professional skills |
| Oral exams | Knowledge & Understandings, Intellectual Skills and General skills |

| | |
|---|---|
| Practical exams | Professional and General skills |
| Research projects/Reports | Knowledge & Understandings, Intellectual Skills, Professional skills and General skills |

## ☒ Schedule for students' evaluation:

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

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

## External Reviewer Report:

Available [+] Not Available [ ]

## Learning resources

### ☒ Staff members to students' ratio:

| Staff/ Student ratio | Assistant Staff/ Student ratio |
|---|---|
| **1:38.6** | **1:15.4** |

☒ **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 part timers.

☒ **Adequacy of library/ computer facilities**:

For students: Adequate

For staff members and their assistants: Adequate

- There are 650 scientific references for the different fields of interest in the faculty of dentistry including textbooks, journals, articles and theses.
- Two librarians are devoted to library and supplying information.
- The Knowledge Bank is available for both students and staff members.
- There are five computers available in the library with an access to the internet in addition to a free wireless internet to allow all students to use their own laptops.
- There is one library computer operated by the library specialists, where books and references information are available.
- Lighting and ventilation of the Library are good.

☒ **Adequacy of laboratories**

Appropriate [+] To some extent [ ] Not Appropriate [ ]

- 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 is highly qualified and they attend special training workshops for maintenance and optimum safety of the labs.

## ☒ 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.

## ☒ Adequacy of field / practical training resources

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.

## ☒ Adequacy of any other program needs:

A well-established bylaw program for master degree and diploma is available. Such bylaw is accredited.

## Quality management

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

The NARS parameters are applied in all courses.
The internal and external auditing are available.

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

**Faculty response to student and external evaluations:**

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

**Proposals for program development**

1. Improving Students Assessment Methods by providing training workshops to staff members.
2. Improving the provision of exams through preparing exams Blueprint for better distribution of questions over course items &Informing the students about the distribution of marks (continuous assessment, oral and written exams) prior to each course.
3. Arranging pre- scheduled final revisions at the end of the academic year.
4. Providing further training for staff members on the problem solving approach assessment method.
5. Improving & updating the website of faculty.

**Suggestions for improving the program**

| | Suggestions for improving the program | Responsibility | Timing |
|---|---|---|---|
| 1 | **Increase the interactive learning methods during lectures, through increasing the student activities.** | **- Head of department<br>-Course coordinator** | **During 2018/2019** |
| 2 | **Modify some of the course contet.** | **- Head of department<br>-Course coordinator** | **During 2018/2019** |

| | | | |
|---|---|---|---|
| 3 | Update the lab manual and experiments to correlate with the lectures. | - Head of department<br>-Course coordinator | During 2018/2019 |
| 4 | Rephrasing of some of the ILOs in course specs and revision of the action verbs, as well as, the assessment methods section. | - Course coordinator<br>- Quality Unit | During 2018/2019 |
| 5 | Contact the timetable committee to ensure that the exam time table is suitable. | -Head of department<br>-Timetable committee | During 2018/2019 |
| 6 | Increase the number of staff members and demonstrators to compensate with the increasing number of students. | - Head of department<br>- Dean<br>- Administration | During 2018/2019 |
| 7 | Practical sessions are recommended to be organized in small groups of students to achieve a better learning outcome. | - Course coordinator | During 2018/2019 |
| 8 | Modify tools and equiments in labs and clinics including:<br>-Increase the facilities in the lab which mainly include instruments, tools and glassware.<br>-All classrooms & laboratories need to be air conditioned.<br>-More data show devices are required for the lab-work demonstration.<br>-Increase the number of new microscopes and slides.<br>-Provide more quantity of chemicals.<br>-Cameras for demonstrations are needed to be able to do life demos and workshops on different rotary systems. | - Head of Department<br>- Course Coordinator<br>- Dean | During 2018/2019 |

**Program coordinator:**

**Faculty Dean Head of Quality Assurance Unit:**