



جامعة طنطا
كلية طب الأسنان
وحدة ضمان الجودة

برنامج بكالوريوس طب وجراحة الفم والأسنان



BDS Programme Specification

1. Programme Title:	Bachelor of Oral and Dental Medicine and Surgery (BDS)
2. Award/degree:	BDS
3. Department(s) responsible:	<ul style="list-style-type: none"> • Prosthetic dentistry • Oral Pathology • Oral Biology (Dental Morphology, Oral Histology) • Orthodontics • Oral & Maxillofacial Surgery • Pediatric Dentistry , Oral Health and Preventive Dentistry • Dental Biomaterials • Oral Medicine, Periodontology, Oral Diagnosis & Radiology • Restorative Dentistry • Fixed Prosthodontics • Endodontics - <u>Courses taught in Faculty of Science, Tanta University</u> include Chemistry, Physics & Biostatistics, Zoology & Genetics. - <u>Courses taught in Faculty of Medicine, Tanta University</u> include General Anatomy & General Histology, Special Anatomy, General Physiology, Biochemistry, General Microbiology, General Pathology, Pharmacology, Internal Medicine, Dermatology, General Surgery, ENT and Ophthalmology. - <u>Complementary sciences:-</u> <ul style="list-style-type: none"> - Computer science - English - human rights
Coordinator:	Prof. Eman El-Shourbagy (Quality Assurance Unit Director)
Internal evaluator	Prof. Nagwa Ghoname , Prof. Olfat Gaballa
External evaluator(s):	Prof. Shaza Mohammed Hamad , Faculty of Dentistry, Mansoura University Prof. Azza Ezz Elarab, Faculty of Dentistry, Cairo University Prof. Ahmed Rashad, Faculty of Dentistry, Alex University
Date of most recent approval of programme specification by the Faculty Council:	26-8-2018

Programme aims:-

The aim of the programme is to:

1. develop the necessary knowledge, skills and experience to graduate as a dental practitioner capable of maintaining the oral and dental health of the patients.
2. build the foundation of scientific knowledge on which clinical practice is based.
3. motivate student for lifelong learning and continuous education.
4. appreciate the ethical and legal basis for dental practice.
5. acquire appropriate skills for communicating with the patients.
6. utilize advances in relevant knowledge and techniques in dentistry.

1. Intended learning outcomes (ILOs) for programme:

a. Knowledge and understanding:

On graduation, the student should be able to

- a.1. recognize fundamental principles in chemistry of various state of matter with special reference to solid state on a foundation of material science.
- a.2. locate core courses in physics (properties of matter and heat) and biostatistics.
- a.3. recognize types of tissues with fundamentals of gene expression.
- a.4. identify of the cells, tissues, organs and systems of the human body relevant to the practice of dentistry.
- a.5. recognize embryology of the face and oral cavity.
- a.6. explain craniofacial growth and development of normal occlusion and its clinical application.
- a.7. identify etiological factors of craniofacial disorders and malocclusion.
- a.8. discuss form and function of teeth and associated tissues in health and diseases.
- a.9. recognize social and psychological issues relevant to dental care and language sufficient to make direct personal contact with others and basic terminology related to dentistry and basic principles of computer.
- a.10. discuss principles of pathogenic mechanisms and manifestations of human diseases, which are important in dentistry.

- a.11. **recognize the function of body organs and systems.**
- a.12. **define complex interactions between oral health, nutrition, general health, drugs and diseases that can have an impact on dental care.**
- a.13. **review dental biomaterials science, including their limitations and the environmental issues relevant to their use.**
- a.14. **locate scientific principles of sterilisation, disinfection and antisepsis to prevent cross-infection in clinical practice.**
- a.15. **explain pathogenesis of infection, inflammation, disorders of the immune system, degeneration, neoplasia, metabolic disturbances and genetic disorders.**
- a.16. **recognize restoration of different classes deal with the new techniques and advanced concepts in the restorative dentistry, design and laboratory procedures used in the production of crowns, bridges and successful root canal treatment**
- a.17. **describe the design and choice of materials used in the production of removable partial and complete dentures, along with knowledge of laboratory procedures and the problems encountered in clinical and laboratory work.**
- a.18. **report pharmacological properties of drugs used in dental practice including their interactions and side effects.**
- a.19. **recognize main medical disorders and aspects of general medicine and surgery that may impinge on dental treatment.**
- a.20. **describe biology of tooth movement and the principles of orthodontic treatment (preventive, interceptive and corrective)**
- a.21. **discuss the different types of x-ray film used in dentistry which aid in diagnosis, treatment planning and management of patients.**
- a.22. **recognize principles and importance of health promotion, health education and prevention in relation to dental disease.**
- a.23. **explain basic principles of exodontia , local anesthesia , general anesthesia and oral & maxillofacial surgery.**
- a.24. **describe pain control, medical emergencies and how to deal with them.**
- a.25. **recognize principles of psychological & pharmacological management of children in dentistry.**
- a.26. **define basic principles in the management of pulpal and periodontal disease, trauma, and treatment of failures.**
- a.27. **discuss the biocompatible, functional and aesthetic fixed dental prostheses, over denture & implant prosthesis.**
- a.28. **recognize principles of evidence based decision making in dental practice.**
- a.29. **identify component of successful dental practice management.**
- a.30. **state principles of ethics , dental ethics obligation and medico-legal aspects in dental practice.**

b. Intellectual skills

- b.1. incorporate the basic, dental and medical sciences with the signs and physical symptoms, and their clinical application.
- b.2. analyze clinical findings to make a diagnosis and formulate appropriate treatment plan for common oral disorders.
- b.3. categorize the list of potential patient's clinical problems.
- b.4. differentiate between the normal and abnormal characteristics, which is of particular importance to the practice of dentistry.
- b.5. develop strategies to predict, prevent and correct deficiencies in patient's oral hygiene regimens.
- b.6. organize etiological factors and preventive measures of oral disease that encourage the patients to assume responsibility for their oral health.
- b.7. assess patient risk for caries and formulate caries prevention strategies.
- b.8. plan preventive and restorative procedures that preserve tooth structure, prevent hard tissue disease and promote soft tissue health.
- b.9. design the laboratory procedures used in the production of crowns, bridges, partial and complete dentures and make appropriate chairside adjustment to these restorations.
- b.10. assess drugs commonly used in oral medicine and assess their side effects and interactions.
- b.11. assess the management of trauma in deciduous and young permanent dentitions.
- b.12. suggest options for successful dental practice management to organize the relationship between dental teams and patients for fund raising .
- b.13. correlate clinical, radiographic and histopathologic feature.

c. Professional and practical skills

- c.1. draw the normal aspect & histological features of teeth, types of cells and oral and para oral tissues.
- c.2. master the use of laboratory equipments applied for identification of different chemical compounds and physical properties of material.
- c.3. illustrate the different pathological lesions under microscope.
- c.4. schedule a history of the present complaint , medical history and perform an extra-oral and intra-oral examination appropriate to the patient, including assessment of vital signs.

- c.5. **employ radiographs of relevance to dental practice, interpreting the images, including managing and avoiding the hazards of ionizing radiation.**
- c.6. **apply complete dental & soft tissue examination to determine factors contributing to disease progress and its treatment including present medication that affect the delivery of dental care.**
- c.7. **practice an orthodontic assessment including simple cephalometric analysis with interpreting of the result.**
- c.8. **plan when, how and where to refer a patient for sedation and/or general anesthesia and in making other appropriate referrals based on clinical assessment.**
- c.9. **examine the periodontium, establishing a diagnosis, apply treatment plan , prognosis and monitor the effects of appropriate pharmaceutical agents.**
- c.10. **manage acute oral infections, including patient referral and prescription of appropriate drugs.**
- c.11. **practice the best laboratory steps resulting in satisfactory cavities of all classes, successful root canal treatment, single units of crowns and partial & complete dentures.**
- c.12. **fabricate space maintainers, habit breaking appliances and removable orthodontic appliances for minor tooth movement.**
- c.13. **administer infiltration and block local anaesthesia in the oral cavity for restorative and surgical procedures.**
- c.14. **perform teeth extraction and removal of remaining roots.**
- c.15. **undertake supragingival and subgingival scaling and root debridement including stain removal and prophylaxis.**
- c.16. **perform endodontic treatment on single and uncomplicated multi-rooted teeth and restore defective and/or missing teeth to an acceptable form, function and aesthetics.**
- c.17. **construct effective complete and partial dentures.**
- c.18. **apply preventive measures for different age groups, bearing in mind the different needs of young children, adolescents, adults and the ageing population/elderly.**
- c.19. **implement infection control strategies in clinical practice.**
- c.20. **manage dental emergencies including those of pulpal, periodontal or traumatic origin.**
- c.21. **operate the appropriate restorative technique and pulp therapy for children.**

d. General and transferable skills

- d. 1 adopt ethical patient–dentist relationship that allows the effective delivery of dental treatment.
- d. 2 respond effectively toward patient expectations, desires and attitudes (needs and demands) when considering treatment planning and during treatment.
- d. 3 work with other members of the dental team.
- d. 4 communicate effectively with other professionals, verbally and in writing, including being able to negotiate and give and receive constructive criticism.
- d. 5 use all resources effectively to continuing professional development and lifelong learning and assess personal progress.
- d. 6 display appropriate professional behavior.
- d. 7 express professional responsibility toward individuals, families and groups in the community.
- d. 8 use contemporary information technology for communication, management of information and applications related to health care.
- d. 9 take control of his/her workload, and establish priorities to accomplish stress management in the workplace.
- d. 10 illustrate the concept of quality assurance in dental practice

e- Attributes of the Graduates

- e.1. demonstrate ethical relationship with staff, patients and colleagues.
- e.2. deliver care to patients with professionalism, self confidence and communication.
- e.3. recognize different medico legal aspects of dental practice.
- e.4. committ to lifelong learning in dental disciplines.
- e.5. introduce the concept of evidence based dentistry into his/her scientific knowledge and attitude.
- e.6. develop life skills and attitudes that will maximize his/her educational experiences as undergraduates.
- e.7. become reliable dental practitioners, committed to the health care delivery; secure in their ability to assess and accept their own strengths and weaknesses.
- e.8. maintain safe and infection control environment to prevent cross infection in clinical practice.
- e.9. realize the need for proper referral of the patient.
- e.10. respond to update of dental technology.

2. Curriculum Structure and Contents

4.a programme duration (5 years):

4.b programme structure:

- Basic sciences Lec. (32 h.) Pract. (30 h.) = (36.25%)
- Med. and dental sciences A- Didactic : (38 h.) = 22%
B- Lab + clinical : (65 h.) = 38%
- Complementary sciences 6 h. = 3%

No. of hours per week:

- Lectures: 14-16 hours per week

Pre-dental year	16 hrs
First year	15 hrs
Second year	13 hrs
Third year	16 hrs
Forth year	14 hrs

- Lab, Clinical/ small group teaching: 13-24 hours per week

Pre-dental year	13 hrs
First year	13 hrs
Second year	22 hrs
Third year	24 hrs
Forth year	23 hrs

- Total: 28-38 hours per week

Credit hours were implemented for undergraduate dental education in academic year 2016-2017

Academic Standards

A National Academic reference Standards (NARS) for dentistry: for undergraduates offered by the Egyptian Authority for quality Assurance and Accreditation for Education (NAQAAE) 2009 and adopted by the Faculty in 22/4/2009 and readopted in 19/2/2014.

Courses contributing to the programme

1- Preparatory year

Code	Course Title	No. of hours / week		Total Hours
		Practical	Lecture	
TDEN 00:01	Chemistry	2	2	4
TDEN 00:02	Physics & statistical	2	2	4
TDEN 00:03	Zoology & genetics	2	2	4
TDEN 00:04	General Anatomy	4	4	8
TDEN 00:04	General Histology			
TDEN 00:05	Dental Morphology	3	1	4
TDEN 00:06	Basic dental biomaterials	-	1	1
TDEN 00:07	English language & Medical Terminology	-	2	2
TDEN 00:08	Computer	-	2	2
Total		13	16	29

2- First Year

Code	Course Title	No. of hours / week		Total Hours
		Practical	Lecture	
TDEN 01:01	Oral biology	2	2	4
TDEN 01:02	General Pathology	2	2	4
TDEN 01:03	Biochemistry	1	2	3
TDEN 01:04	General Physiology	2	4	6
TDEN 01:05	Special Anatomy	2	2	4
TDEN 01:06	Dental Biomaterials	2	1	3
TDEN 01:07	General Microbiology	2	2	4
Total		13	15	28

3- Second Year

Code	Course Title	No. of hours / week		Total Hours
		Practical	Lecture	
TDEN 02:01	Oral Pathology	3	3	6
TDEN 02:02	Technology of Restorative Dentistry	4	2	6
TDEN 02:03	Technology of Fixed Prosthodontics	4	2	6
TDEN 02:04	Technology of Prothetic Dentistry	6	2	8
TDEN 02:05	Technology of Orthodontics	2	1	3
TDEN 02:06	Technology of Pediatric Dentistry	2	1	3
TDEN 02:07	Pharmacology	1	2	3
Total		22	13	35

4- Third Year

Code	Course Title	No. of hours / week		Total Hours
		Practical	Lecture	
TDEN 03:01	Internal Medicine	2	2	4
TDEN 03:01	Dermatology and Venereology			
TDEN 03:02	General Surgery	2	2	4
TDEN 03:02	ENT			
TDEN 03:02	Ophthalmology			
TDEN 03:03	Oral Surgery and anaesthesia	2	2	4
TDEN 03:04	Restorative Dentistry	3	1	4
TDEN 03:05	Fixed Prosthodontics	3	1	4
TDEN 03:06	Technology of endodontics	2	1	3
TDEN 03:07	Oral Diagnosis	2	2	4
TDEN 03:07	Oral Radiology			
TDEN 03:08	Prothetic dentistry	3	2	5
TDEN 03:09	Pediatric Dentistry	3	2	5
TDEN 03:09	Oral Health & Preventive Dentistry			
TDEN 03: 10	Orthodontics	2	1	3
Total		24	16	40

5- Fourth Year

Code	Course Title	No. of hours / week		Total Hours
		Practical	Lecture	
TDEN 04:01	Restorative Dentistry	4	2	6
TDEN 04:02	Fixed Prosthodontics	4	2	6
TDEN 04:03	Endodontics	2	1	3
TDEN 04:04	Oral and Maxillofacial Surgery	3	3	6
TDEN 04:05	Oral Medicine	4	4	8
TDEN 04:05	Periodontology			
TDEN 04:06	Prothetic dentistry	6	2	8
Total		23	14	37

Programme admission requirements

3. Registration to the Faculty of Dentistry requires the student to have the General Egyptian Secondary Education Certificate or equivalent certificates or degrees approved by the Egyptian ministry of higher education with qualifying grades according to the guidelines put annually by the Ministry of higher education.

4. Regulations for progression and programme completion

- Students must attend at least 75% of practical/clinical sessions. Students who fail to meet this minimal percent of attendance may be prevented from attending exam in this specific course based on department council recommendation and decision of Faculty council. The grade awarded for this course is “failed” unless student presents an excuse for absence that is accepted by Faculty council in which case he is considered absent with acceptable cause. Student may attend exam of the course or may defer taking the exam till reset exams usually held in September.
- For all courses except “English”, “Computer” and human rights in the preparatory year, a percentage of grades are given to continuous assessment conducted by departments.
- To progress to a higher year, students must pass in all courses.
- Students who fail in two courses maximum are entitled to a make-up exam held in September before the beginning of the scholastic year.
- Students who fail in more than two courses are not entitled to the make-up exam and have to repeat the year and retake the exams in the failed courses.
- The total grade for students who attempt the make-up exam includes grades for written exam, oral and practical/ clinical exams but not the grades for continuous assessment. The total grade for such courses is recalculated based on the original total grade for the course.
- For students who present an acceptable excuse for absence in the final exam, the grades for continuous assessment are included within the total after the make-up exam.

- For students attempting the make-up exam (with an acceptable excuse for absence or without), these students should pass a practical exam with a 50% of the total grade of the course.
- Students who fail in the make up exam or do not attend it should repeat the year.
- The final written exam duration is three hours for each course.
- In order that a student passes in a course, his/ her grades should be above the percent for passing provided that he/ she at least gets 30% of the grades for the final written exam.
- For students who get less than 30% of the grade for the final written exam, no grades are recorded in that course, and he/she is considered “failed” that course with a grade “very weak”.
- Students are graded as follows:

Excellent	≥ 85%
Very good	≥ 75% - less than 85%
Good	≥ 65% - less than 75%
Fair	≥ 60% - less than 65%
Weak	≥ 35% - less than 60%
Very weak	less than 30%

Internship Training:

- Internship year of rotational training is required to practice dentistry.
- The first 24 graduates are trained for one year in the faculty of dentistry and the rest of the graduates are trained at a rate of 3 months in faculty.
- Graduate's rotation schedule is held in ministry of health hospitals.

5. Evaluation of programme intended learning outcomes

Evaluator	Tool	Sample
1. Senior students	Questionnaire	200
2. Alumni	Questionnaire	100
3. Stakeholders (Employers)	interview	5
4. External Evaluator(s) (External Examiner(s))	reports	3
5. Other	-	-

- The external evaluators participated in the evaluation of the programme and courses.
- Questionnaire for feedback from students assessed courses , lectures demonstrators and lecturers were collected annually and evaluated to be considered in the action plane for next year.