Faculty of Dentistry

Bachelor of Dental Surgery (B.D.S.)

Programme

A.M. Hamd 7/3/2012

BUE
The British University in Egypt
الجامعة البريطانية في مصر

وزارة التعليم العالي
الإدارة العامة للجامعات الخاصة
تعتمد صحة التوقيع بخاتم الشعار
التوقيع

2012

The British University in Egypt
Faculty of Dentistry

Overview

The **Bachelor of Dental Surgery (BDS)** degree offered by BUE is a five year full time programme of study as well as summer courses, and clinical summer training courses aimed primarily at educating and training graduates for efficient dental practice in the new century. Students have to finish successfully 600 credits (Check these numbers) (570 Credits Faculty core requirements, 20 Credits University requirements, and 10 Credits Elective modules) over the 5 years and summer courses before graduation.

The Faculty of Dentistry at BUE aims at fulfilling an urgent academic and national need for establishing institutes and faculties catering for a growing demand for high level graduates in the scientific and technological fields.

BUE's Faculty of Dentistry introduces a solid basis and hands-on experience allowing students to grasp the latest trends in dental science and practice. The University provides the most up-to-date equipment and highly qualified staff to insure the most efficient delivery of the knowledge and skills required. The University believes that such knowledge and skills are essential for its graduates to take the lead in dental practice on both the domestic and regional levels.

The curricula of study are divided into three phases corresponding to the three levels of learning: the first, corresponding to level one comprises **one year** and is devoted to basic medical sciences necessary to prepare the dental student to comprehend human biology, the second comprises the next **two years** and is devoted to the study of basic and applied dental sciences as well as being a Pre-Clinical phase in which the dental student studies and is trained on models and simulators before he/she is ready for the final stage of training, corresponding to level three, which comprises the **last two years** in which the student studies applied clinical dental courses as well as being trained in specialised dental Clinics. During the clinical phase, the Faculty of Dentistry, BUE University will encourage the concept of comprehensive and multidisciplinary dental care that permits diagnosis and integrated, comprehensive treatment planning, and simultaneous learning experience in all dental clinical disciplines.

In the clinical setting, students will undertake patient treatment under complete supervision of highly competent multidisciplinary team of Faculty Staff who combine advanced dental

care skills with high standards of teaching. Students will be trained to adhere to the proper codes of professional and academic ethics. This clinical training will enable students to diagnose dental and oral problems and treat the common ones that they may encounter during their post graduation years. It will also involve task analysis, scheduling, delegation of duties, authorisation, and monitoring results. In these specialised clinics, students will also learn the principles of assisted-operating dentistry, and will be made to be aware of professional and legal responsibilities to fellow staff and to their patients. The principles of preventive dentistry will prevail in every clinical discipline so that new preventive dentistry techniques will be taught to students as they become available. Students will be trained to become conversant with the practice of preventive dental care including oral health education and oral health promotion. *They will also be made to recognise the increasing evidence-based approach to diagnosis and treatment and hence will be able to make appropriate judgements and decisions.* The student will be directed to appreciate the need to collaborate in prevention, diagnosis, treatment, and management of disease with other healthcare professionals and with the patients themselves. In the clinical phase, emphasis will be laid upon whole patient care, implying consideration of the patient's total dental needs rather than just provision of separate items of treatment, taking into consideration the patient's medical needs. At all stages of their clinical training, arrangements will be made for infection control and for the control of all and any substances hazardous to health, as well as for the safety of equipment.

The curriculum has been designed to effectively integrate the many components of the 5-year programme and make them as relevant as possible to the dental graduate of the present decade onwards. It includes the necessary knowledge, skills, and professional approach and possesses strength in clinical skills. There will be greater emphasis on competencies, a record of achievement and an integrated approach to teaching and learning.

To improve the quality of our graduates and to prepare them to better interact with society, new and varied elective modules have been added to the programme of study. Medical and Dental Photography, Principles of Human Nutrition, and the use of Computers in Dentistry, are examples of new elective courses that allow dental students to interact with and be better equipped for their society and its problems.

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The Faculty of Dentistry, BUE is committed to graduate dentists who are characterized by theoretical knowledge, clinical skills, and a well rounded personality and who are fully aware of their place and duties in society. This means the dental graduate should be provided with professional knowledge of different dental fields of specialization, contemporary applications, and latest developments in dentistry as well as the dental skills

necessary to deliver this knowledge to patients in terms of proper diagnosis, treatment planning, and execution. All this takes place within a framework of ethics while keeping the welfare of their patients at the forefront of their thoughts.

The methods of instruction at our Faculty include lectures, tutorials, seminars, practical, laboratory technical work, demonstrations, and specialised clinics for treatment of patients under staff supervision.

Upon completion of their studies, students will, in addition to acquiring the academic and practical skills necessary for the practice of dentistry, also acquire communication skills, personal management skills, information technology skills and an appreciation and analysis of ethical and legal issues in dentistry.

Faculty Bylaws

The British University's Academic Decision-Making Structure

The University's ultimate decision-making body on academic matters is the Senate.[1] Its remit is to direct, regulate, develop, monitor, and promote the University's academic work and provision, and to keep standards and quality under regular review. The Academic Quality Committee is a standing sub-committee of the Senate, with delegated authority to approve new programmes, and to implement, oversee, monitor and develop the University's policies and procedures in relation to quality and standards, learning and teaching strategy, and accreditation. The Senate delegates authority to Programme Boards, Examination Boards, the Academic Appeals Committee, Impaired Performance Panel, and Academic Impropriety Investigation Panel, as well as to individual Deans and Programme Directors, to make decisions on its behalf, relevant to their areas of responsibility. Key decisions are routinely reported to the Senate.

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Article 1

The curriculum is an integrated, competency and learning outcomes-based one intended to provide adequate training for the graduate to practice general dentistry and to instil in the graduate a commitment to learning throughout his/her professional life.

Hence, the dental graduate should possess:

1. A thorough understanding of biological and technological sciences to enable the integration and correlation of these sciences with clinical dental practice.
2. Competence in diagnosis of oral and dental conditions, disorders, and diseases with proper understanding of the relationship between general and oral disease.

[1] The British University in Egypt is authorized by Egyptian Presidential Decree to award degrees in accordance with the regulations stipulated by the Supreme Council of Egyptian Universities (SCU).

3. Skills to provide the preventive and treatment services commonly required in dental practice.
4. An understanding of the necessity of continuing education.
5. A sense of professional, ethical, and social responsibility.

Article 2

The curricula of study are divided into three phases corresponding to the three levels of learning. The **first phase**, corresponding to level one comprises **one year** and is devoted to **basic medical sciences** necessary to prepare the dental student to comprehend **human biology**. The **second phase** comprises **two years** and is devoted to the study of **basic and applied dental sciences as well as being a Pre-Clinical** phase in which the dental student studies and is trained on models and simulators before he/she is ready for the final stage of training. **Phase three**, corresponding to level three, comprises the **last two years** in which the student studies **applied clinical dental courses** as well as being trained in specialised **dental Clinics.**

Article 3

The British University in Egypt, on the authorisation of the University Senate, offers a five-year Bachelor of Dental Surgery (B.D.S.) Programme in accordance with the regulations approved by the SCU.

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Article 4

The following subjects are studied in the different phases:

1. Phase I (**P**) – First academic year: General Anatomy, Human Physiology, Biochemistry, General Histology, Medical and Dental Microbiology and Virology, Descriptive Dental Anatomy.
2. Phase II (**C**): (Basic and Applied Dental Sciences, Pre-Clinical) – Second and third academic years: Oral Biology, General Pathology, Pharmacology, Dental Materials, Operative Dentistry Technology, Prosthetic Dentistry Technology, Crown and Bridge Technology, Endodontics Technology, Oral Pathology, General Medicine, General Surgery, Oral Radiology.
3. Phase III (Clinical) (I & **H**) – Fourth (**I**) and fifth (**H**) academic years: Orthodontics, Operative Dentistry, Prosthetic Dentistry, Crown and Bridge, Endodontics, Oral Surgery and Anaesthesia, Oral Medicine and

Periodontology, Oral Diagnosis including X-ray interpretation, Paedodontics, Public Dental Health and Preventive Dentistry.

4. Students must register for and successfully pass one elective module during the five-year B.D.S. study period.
5. A student who does not satisfactorily complete phase I after 2 years of study will be asked to transfer to another faculty.

Article 5

The Programme of Dental Surgery compromises the following Modules:

1. Oral Histology
    a. Descriptive Dental Anatomy (Human Dentition)
    b. Oral Biology and Oral Histology
2. Dental Prosthetics
    a. Removable Prosthodontics
    b. Maxillofacial Prosthodontics
    c. Implant Prosthodontics
    d. Dental Materials
3. Restorative Dentistry
    a. Operative Dentistry
    b. Endodontics
    c. Fixed Prosthodontics
4. Oral Pathology
    a. Oral Pathology and Oral Histopathology
5. Oral Surgery and Anaesthesia:
    a. Oral and Maxillofacial Surgery
    b. General Anaesthesia
    c. Local Anaesthesia
6. Paedodontics
    a. Paedodontics
    b. Preventive Dentistry and Oral Public Health
7. Orthodontics
    a. Orthodontics
8. Oral Medicine and Periodontology
    a. Oral Medicine
    b. Periodontology
    c. Oral Radiology and Oral Diagnosis
9. General Medical Sciences



a. General Anatomy
b. Human Physiology
c. Biochemistry
d. General Histology
e. Medical and Oral Microbiology
f. Pharmacology
g. General Pathology
h. General Medicine
i. General Surgery

Article 6

Modules taught within the Faculty of Dentistry, but owned by other faculties are the responsibility of the 'home' Faculty.

Article 7

Students shall not advance from Phase I to Phase II before successful completion of **all faculty required modules**. A student is allowed to re-sit exams in the summer re-assessment period in a maximum of **60 credits**. He may be allowed to progress from one year to another **within the same phase** as long as he does not trail more than **2 modules**. Students shall not be granted the B.D.S. degree before successful completion of all faculty modules (core modules) and university required modules (English Language) as well as one elective module.

Article 8

Students are expected to attend all time tabled classes. Assessments in all modules take place throughout the academic year. The final examinations shall take place during the designated examination period at the end of each academic year, as well as re-sit exams for any failed module in the Summer Assessment Period (SAP) in accordance with the General Academic Regulations (GAR).

Article 9

Admission is in accordance with Supreme Council of Egyptian Universities regulations and the required number of students is taken from among those with the highest grades.

Article 10

Students transferring from other universities may be exempted from credits in **phase 1 and phase 2** if they can demonstrate that they have achieved the intended learning outcomes of the modules to be exempted. **No transfers** are permitted in **phase 3**. Exemptions are approved by the Programme Director, acting on authority delegated by the Senate.

Article 11

Students with a **legitimate claim** for missing an assessment or examination may be allowed a further opportunity to be assessed, and will be awarded the **full mark** obtained. The Impaired Performance Panel, acting on authority delegated by the Senate, will consider all claims of this nature.

Article 12

Where there is more than one item of assessment for a module, each assessment item will be allocated a weighting, and the module mark calculated according to the specified weight. If a student misses any assessment item, he or she will be awarded a mark of zero for that item.

Article 13

1. Students are awarded credit in any module in which they achieve at least the minimum pass mark.
2. Students may progress to the next academic year **within the same phase** provided they trail no more than **2 modules** in the **current year**. The Faculty of Dentistry may stipulate that students must pass specific modules before being allowed to progress.
3. Students must gain a minimum pass mark of **60%** in all Faculty required and University required modules in addition to a **minimum mark of 30%** in the **written** examination in **each** module.

Article 14

The marking scheme for all modules are as follows:

Mark	Grade	SCU Classification
> 92	A+	Excellent
90 – 92	A	
88 – 90	A-	

85 – 87	B+	
80 – 84	B	Very Good
75 – 79	B-	
70 – 74	C+	Good
65 – 69	C	
60 - 64	C-	Pass
< 60	F	Fail

The overall average for each year of study as well as for graduation classification is calculated on the basis of the average of module marks for the year, or for the entire programme of study, weighted according to the module credit value.

The criteria of graduation classification are as follows:

Excellent ≥ 85%

Very Good ≥ 75%

Good ≥ 65%

Pass ≥ 60%

Fail < 60%

These apply to individual modules, students are given 1% in the **aggregate** of all modules to improve their aggregate grade without actually adding any marks to their totals.

More details are given in the GAR.

Article 15

Admission

Admission is in accordance with Supreme Council of Egyptian Universities regulations and the required number of students is taken from among those with the highest grades.

Admission to the University is competitive. The possession of the minimum entry qualifications does not of itself entitle an applicant to admission.

Any student offered admission under these regulations shall have been required to, as a minimum:

- Meet such **general entrance requirements** as may be specified by the **BUE Senate** from time to time; and

- Meet such **general entrance requirements** as may be specified by the **Egyptian Council of Private Universities** (CPU); and
- Meet any **particular requirements** for the programme applied for, as specified in the relevant programme regulations.
- A complete **physical and medical** check-up is also required.

Students that fulfil the requirements set by the Egyptian Supreme Council of Universities in terms of subjects and grades that apply to the Faculty of Dentistry will be accepted into the Dentistry Programme with the following certificates:

i. Egyptian General Certificate of Education (Thanaweya Amma)
ii. I.G.C.S.E
iii. American Diploma
iv. Other equivalent certificates approved by both the Supreme Council of Universities and the Ministry of Education.

Students may **transfer** from **other universities** to the BUE Faculty of Dentistry in phases 1 & 2 only, and credits earned at those universities may be accepted after approval of the module content by the BUE Faculty of Dentistry.

Graduates holding a bachelor degree from other faculties can be accepted, and they will be offered an exemption only from the modules successfully passed in their respective faculties after the BUE Faculty of Dentistry approves their equivalence.

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Article 16

Teaching Methodology:

The method of teaching varies according to programme and individual modules, but is a mixture of lectures, practical, chair side teaching, seminars and directed self learning, including IT-mediated learning environments.

Lectures: these are mainly designed as presentations, providing core knowledge and guidance in subjects being studied. Lectures should develop students' abilities in understanding and reflection. Audiovisual presentation techniques will be used to supplement their value.

Practical Sessions: Laboratory sessions will be used to reinforce a deeper understanding of topics presented in lectures as well as develop students' manual skills and dexterity, and their skills in scientific methodology.

Tutorials: these will be related to both preclinical and clinical issues or problems and will rely on discussion and interaction, as well as **integration between all clinical disciplines and between basic preclinical sciences and clinical aspects.** They will be mainly directed

towards developing students' skills in communication, teamwork, reasoning, and critical thinking.

Seminars: weekly seminars in specialised clinics are included in the students' timetable. These are interactive ways of teaching including a variety of presentations, discussion groups, and simulations. They will emphasise and demonstrate the ideas gained and concepts comprehended, and develop communication and problem solving skills.

Personal Development Portfolios: each student has to prepare a personal portfolio in every module including all theoretical, practical and clinical work performed, as well as any assignments. This will be evaluated and will contribute to the final mark in the module.

Clinical Session: in clinical disciplines to give students adequate experience in handling clinical cases to prepare them for future clinical practice. This will be done in polyclinics under strict supervision by senior members of the staff of relevant departments. Emphasis will be focused on the transfer and continued development of practical clinical skills as well as on the acquisition of professional and ethical attributes appropriate to dental practice.

Guided Independent Study using Communications and Information Technology: these include researches and assignments associated with lectures, laboratory classes, and seminars, and depend on library references given by the lecturers, and on the internet. This represents an effective way of independent learning and will develop students' study skills, self-reliance, and independence of thought, preparing students for future continued education.

Academic Counselling: This informs students about the rationale, content aims, and objectives of the programme as a whole through open discussions about timetables and activities, especially in the early stages of the course.

The course will actually be a combination of staff providing information through lectures as well as students researching and finding information through assignments and discussing them in seminars and tutorials.

This is actually to meet the needs of our students who are not adequately prepared in their pre-university education to find information for themselves. They will be gradually tutored towards self dependence and self learning as they proceed in the course. Problem solving-based education will be increasingly used as students progress in their clinical training.

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Article 17

17.1.1 Development of Analytical and Problem Solving Skills

The teaching, clinical training, and assessment are geared to developing students' analytical and problem-solving skills. Problem-based learning (PBL) will be introduced. This involves the presentation of a clinical problem to students that they will analyse and then

look for the needed information themselves. This will train the students to be independent learners, an important trait to acquire for survival in the contemporary rapidly developing world. Assignments and research projects will be given strong emphasis in the curriculum. Teaching, learning and assessment will be progressive throughout the programmes to encourage the transition from dependent to independent learning so that the graduates become increasingly self reliant and responsible for their own learning.

17.1.2 Information Technology

IT will be used to an increasing extent in support of traditional learning and teaching methodologies. IT will be incorporated where applicable in the curriculum. Students will be able to use computers at various locations in the Faculty, clinics, laboratories, tutorial rooms to enable them to access and organise information.

17.2 Assessment Guides and Regulations:

The process of assessment is completely transparent. Answer sheets will be marked by two independent examiners.

All in-course assessments that contribute to the final assessment mark are offered for comments by External Examiners. External Examiners are invited to attend clinical in-course assessments. Students are offered the opportunity to re-sit an in-course assessment on a further occasion. Students must pass all competency tests (preclinical; and clinical requirements as the case may be) prior to being admitted to the relevant examination. More details are given in the GAR.

The rules and regulations for assessment and progression in our yearly-based programme are as follows and are detailed in the exam tables for each academic year.

In Course Assessment (Participation, Quizzes, Assignments)	10%
Midyear Exams	20%
Practical / Clinical, and Oral End of Year Exams	30%
Final Unseen Written End of Year Exams	40%
Total	**100%**

The practical, clinical, and oral exams may be allocated different weights in different modules according to the nature of the module.

Final written exams will be reviewed by external examiners who will be asked to submit reports as to the adequacy of the written exams; clinical and oral exams will be attended by external examiners.

The final examinations are so designed as to allow coverage of all areas of the curriculum. They are also designed to allow an integrated approach to the assessment of student's knowledge.

Examinations employ written papers, practical, clinical, and oral examinations. Patients used in clinical examinations usually present dental problems requiring different clinical management to assess student's holistic approach.

Students must pass all modules in each programme phase before being permitted to progress to the next programme phase.

Students are permitted to carry forward (trail) a maximum of **two modules** not completed from one programme year to the next programme year **within the same academic phase**.

Re-sit examinations for students who fail no more than 60 credits and who satisfactorily attend the summer refreshing courses will be assessed according to the assessment rules for each module as mentioned in the course outlines.

17.2.2 The Calendar of Assessment

There are 3 main periods of assessment for year-long modules during the academic year:

- **Mid-Year Exam** at the end of the Fall Term (January).
- **End of Year Exams** at the end of the academic year (May – June).
- **Re-sit Exams** at the end of the summer refresher courses will be carried out at the end of courses. (August).
- The period of final assessment includes a deadline for submitting all assignments and **preclinical** and **clinical** requirements to be assessed before the final examinations.
- **Level P** Modules: modules taught in the first academic year.
- **Level C** Modules: modules taught in the second and third academic years.
- **Level I**: Modules, modules taught in the fourth academic year.
- **Level H**: Modules, modules taught in the fifth academic year.
- **Module**: A separate identifiable self-contained unit of study at a specified level, which is delivered over one or two academic years, is assessed and given a credit value.

- **Programme**: A collection of modules grouped under a specific title, the details and regulations of which have been approved by Senate as leading to an end qualification.
- **Programme Regulations**: The regulations governing one or more specified programmes.
- **Summer Assessment Period** (SAP): A period to be determined by Senate in which students may be re-examined in failed modules or units of study, and/or by the end of which students shall re-submit any coursework assessment and/or re-sit any class test(s) and/or undertake any practical-based examination(s).

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17.3 Exemptions from Examinations

Exemptions from parts of examinations may be granted only by the Faculty Board to students who have attended the required percentage of attendance but who are prevented from sitting parts or all examinations in a module by compelling circumstances.

17.4 Marking

17.4.1 Marking and Marking Moderation

All assessments are moderated to ensure that grades have been recorded accurately.

Model answers are to be provided by Module Coordinators/Leaders as a guide for moderation. External examiners will review exam questions and written answer sheets with Staff to insure the fairness and objectivity of the assessment process.

17.4.2 Second Marking

A minimum sample of 10% of all answer sheets shall be remarked including all border line failures and at least 5% of all passed papers. Remarking is undertaken by an examiner other than the previous examiner who initially marked the papers. In the event that a second marker decides upon different marks for any of the papers remarked, he shall submit a report addressed to the Faculty Board to such effect for a conclusive arbitration by the Board. A rationale is provided in both cases of approval or changing of grades.

17.4.3 Condoning Failure

The rules for condonement are described in detail in the GAR. They are detailed as follows:

The Programme Examination Board, on the recommendation of the Faculty Board, may condone failures by a maximum of **2%** of the total marks of the academic year, on condition that the student obtains at least **50%** of the marks of each condonable module. Modules with the **highest marks** will be condoned in this manner. In calculating the year average for condonement purposes, only those modules that the student has **attempted as a registered student** of the University shall be included.

Students who fail in **any module** by **2%** or less will be automatically condoned.

17.4.4 Academic Appeals

Students may appeal against procedural irregularities or incorrect assessment by submitting an Academic Appeal form to the University's Academic Appeals Committee within the prescribed deadline. Procedure for appeal is given in the GAR.

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Programme Specifications Bachelor of Dental Surgery (B.D.S)

Version 1.1 (2012/2013)

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if full advantage is taken of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in Module Specifications and other programme documentation.

Note: throughout this document The British University in Egypt, BUE and the University are synonymous.

The accuracy of the information in this document is reviewed by the University and may be checked by external bodies

Relevant subject benchmark statements and other external and internal reference points used to inform programme outcomes

1. The National Qualifications Framework for higher education qualifications in England, Wales and Northern Ireland - January 2001
   http://www.aaa.ac. uk/academicinfrastructure/FHEQ/EWNI/default. asp;
2. QAA guidelines for preparing programme specifications
   http://www.aaa.ac. uk/academicinfrastructure/proaramSpec/default. asp;
3. The British General Dental Council's recommendations in the document "The First Five Years", 2nd edition, 2002
4. The National Academic Reference Standards, NARS Dentistry, Arab Republic of Egypt, National Authority for Quality Assurance and accreditation of Education, NAQAAE

Awarding body/institution

The British University in Egypt

Faculty:

Dentistry

Department:

Dental Surgery

Programme Co-ordinator:

Prof. Tarek Abbas Hassan

Details of accreditation by a professional/statutory body:

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Accredited by Supreme Council of Egyptian Universities

Name of the final award:

Bachelor of Dental Surgery (B.D.S.) with honours [BUE]

Programme title:

Dental Surgery

Date at which the programme specification was written or revised:

October 2012

Reference Points:

- Supreme Council of Egyptian Universities' regulations for Faculties of Dentistry.
- Guidelines and Templates for Internal Quality Assurance System in Higher Education Institutions, Ministry of Higher Education, Egypt.

Course Aims

The following modules are designed and will be implemented in such a way that students may acquire the following:

Intellectual Skills

1. Be able to reason critically.
2. Identify and solve problems.
3. Analyze and interpret.
4. Demonstrate and exercise independence of mind and thought.

Generic/Transferable Skills

1. Structure and communicate ideas effectively both orally and in writing.
2. Manage time and work to deadlines.
3. Participate constructively in groups.
4. Work independently.
5. Find information and use information technology.
6. Be self-reliant.
7. Assess the relevance and importance of the ideas of others.

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Programme's Aims and Objectives:

The programme will include the necessary knowledge, skills, and professional approach and have strength in clinical skills. There will be greater emphasis on competencies, a record of achievement and an integrated approach to teaching and learning.

The curriculum will be one that provides adequate training for the graduate to practice sound general dentistry and to instil a commitment to learning throughout his/her professional life. It is designed for students who aspire to understand, analyze, forecast, and influence the dental profession at the aggregate as well as the individual level. It is also designed to produce a caring, knowledgeable, competent, and skilful graduate who is able to assume professional responsibility for his/her patients.

This programme aims to:

1. A thorough understanding of biological medical sciences to enable the integration and correlation of these basic sciences with clinical dental practice.
2. Provide knowledge about the practice of dentistry and development of relevant skills for the constructive use of that knowledge in their range of activities.
3. Provide students with the tools to apply the knowledge and skills they have acquired to the solution of theoretical and applied problems in dentistry and to exercise judgment in evaluating relevant economic policy.
4. Develop the analytical learning skills that are necessary for the professional dentist.
5. Develop an understanding of problems in the dental field, and be able to detect drug interactions in their field.
6. Competence in diagnosis of oral and dental diseases including an understanding of the relationship between general and oral diseases.
7. Stimulate students intellectually and lead them to appreciate the programme applications to a range of problems and its relevance to a variety of contexts.
8. Clinical understanding and competence to practice without supervision, yet be able to realize his/her limitations and refer patients to specialist advice and care when indicated
9. Encourage understanding of dental problems in a multidimensional context and empower the students to be able to justify, critically appraise, systematically analyse, and reflect on their own and others clinical practice and learning.
10. Enable graduates to apply their transferable skills involving team work, managing and evaluating one's own learning and/or making an effective use of it.
11. Experience in the principles and techniques of working to a deadline and in project management and managing a team.

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12. Enable graduates to independently evaluate/argue alternative approaches and accurately assess/report on own/others work with justification.
13. Enable graduates to deal with complexity and/or contradictions in the knowledge base and make confident selections of tools for the job in hand.
14. Furthermore, the programme aims to enable graduates to continue their professional education and significantly contribute to the wide field of dental care of their patients.

All the above mentioned aims and objectives are to be realized through:

- Appreciation of the principles of scientific thought and argument.
- Appreciation of the importance of a scientific basis for clinical practice.
- A thorough understanding of:
  - Normal human structure, function behaviour, and development.
  - Normal structure, function, and development of oral and dental tissues and related structures.
- A broad knowledge of the processes, clinical, radiographic and histopathologic features and principles of management of human diseases.
- A deep understanding of diseases of the oral region, their causation, clinical, radiographic and histopathological features, and their sequelae.
- A thorough knowledge of the properties and behaviour of dental materials.
- An understanding of the diagnosis, prevention, and treatment of dental and orofacial diseases and disorders.
- Knowledge of the oral manifestations of systemic disease.
- Knowledge of the influence of systemic disease and administered therapeutics on oral and dental disease processes and their treatment.
- Awareness of the fundamental importance of treatment planning, with stress on the need for patient involvement in formulating the treatment plan.
- Awareness of the relation of oral and dental health care to the total health care of the individual patient.
- Awareness of the hazards of the dental surgery and of cross infection.
- Knowledge of when and how to refer patients to specialists for advice or treatment.
- An understanding and skill in the application of IT in clinical practice.
- Acquisition of knowledge and skills in the clinical and technical aspects of all clinical dental specialties.
- Development of competence in the safe and efficient use of oral radiography.
- The importance of obtaining informed consent and of accurate record keeping and their confidentiality.

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- The practice of preventive care, including dental health education.
- Development of communication skills with their patients and fellow staff, as well as with other medical specialists.
- Acquire the skills to elicit an appropriate medical history.
- Knowledge of prescription writing and the laws regulating the supply of drugs.
- Knowledge and adequate skills in the principles of first aid and cardiopulmonary resuscitation.
- Knowledge of dental jurisprudence and the legal and ethical responsibilities of dentists.
- An understanding of the social and psychological aspects of patient care.
- An awareness of the rapidity of developments in scientific knowledge and hence the need for continuing education.
- Awareness of the opportunities for, and the benefits of, postgraduate and continuing education.
- Development of the skills necessary for independent learning.

Notes

The curriculum and regulations of this programme are required to satisfy the regulations of the Egyptian Supreme Council of Universities for Dentistry Degrees. The period of study for the B.D.S. is five full-time academic years that include the following phases:

Phase I: Pre-dental and Preliminary; the first academic year.

Phase II: Pre-clinical and basic dental; the second and third academic years.

Phase III: Clinical phase, the fourth and fifth academic years.

This document describes the content of the five year programme.

Feedback on all aspects of this programme will be obtained via standard procedures from the University's framework for quality assurance.

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Assessment

All modules shall be assessed in English.

A student who has been **awarded credit** in a module shall **not be permitted** to be reassessed in that module with a view to improving his/her mark, except following an appeal or the approval of an impaired performance claim.

All assessments that contribute to the award of credit shall relate to the module **intended learning outcomes**. Assessments shall be designed to ensure that students who pass a module and receive credit have **achieved** the module **intended learning outcomes**.

Learning outcomes are tested and assessed throughout the programme using a variety of forms that typically include a combination of unseen written examinations, open book written examinations, unseen multiple-choice examinations, written examinations based on previewed material, open-book written examinations based on laboratory exercises, oral examinations on project work, laboratory logbooks, laboratory formal reports, project reports and/or papers, project logbooks, oral presentations and visual presentations.

Where students are required to repeat and/or be reassessed in one or more modules, the reassessment shall be of the same structure and based upon the same module content as the assessment at the time of the initial failure. Students shall not be permitted to elect the form of reassessment.



Coursework forms a particularly important part of the assessment. This method of assessment can be used to:

(i) Strongly motivate independent learning;

(ii) Improve student planning and time management skills;

(iii) Develop the comprehension and usage of technical English (particularly important for students at the BUE).

Examinations show how well the student can demonstrate their mastery of an area of scholarly knowledge by selecting appropriate material from memory and applying it to an unseen question in a limited time period. Coursework allows the student to demonstrate wider academic skill of focused scholarly research, drafting, editing and polished writing.

Practical skills are tested and assessed throughout the programme using a combination of coursework assignments, laboratory logbooks, project reports and/or papers, project logbooks and work placement reports.

Summer Clinical Training

1. After the second year, each student may be allocated to a hospital or dental clinic approved by the Faculty of Dentistry where he/she must spend one hundred and twenty hours of summer **observership**. While no credits are earned, the student has to receive a Pass (P) grade. If the student receives a Fail (F) grade he/she has to repeat the observership before being awarded the **final degree**. During the observership the student **will not be allowed** to participate or assist in dental operations. The main purpose of the observership is to expose the student to the work environment, dental tools and equipment, and good hygienic practices.
2. After the third year each student may be allocated to a hospital or dental clinic approved by the Faculty of Dentistry where he/she is required to spend two hundred and forty hours of summer practical training. While no credits are earned, the student has to receive a Pass (P) grade. If the student receives a Fail (F) grade he/she has to repeat the practical training before being awarded the final degree. During the practical training the student **may assist** the professional staff in minor tasks.
3. After the fourth year, clinical training has to be taken by the student who must spend two hundred and forty hours of summer clinical training aimed primarily at educating and training students for efficient dental practice. In this area he/she has to successfully fulfil some of the **clinical requirements** necessary for his/her graduation. This will be undertaken under qualified staff supervision. While no credits are earned, the student has to receive a Pass (P) grade. If the student

receives a Fail (F) grade he/she has to repeat the clinical training before being awarded the final degree.

4. This training will be carried out at the Faculty's clinics during the summer vacation, as well as in approved hospitals and clinics under senior university staff supervision. The students will be under the supervision of our Faculty Staff. There will be close supervision by the Faculty Staff. The assessment as to whether students pass or fail will be made by Faculty staff and will depend on their attendance and punctuality, knowledge and understanding, quality of clinical work and professional behaviour. Students will be able to have a 4 week summer holiday during August.

Internships

Twelve calendar months of internship are compulsory by law before a graduate is granted the license to practice dentistry in Egypt. At least three months of the one-year internship must be spent at our dental school and the rest of this year could be spent in a clinic/hospital approved by the Faculty of Dentistry. This will include weekly seminars in the clinics and reviews of all clinical cases that have been treated by the students/hospital. All will be under supervision of the senior hospital staff members.

Though the 12 month internship is not actually part of the B.D.S. degree, the period is spent in specialised clinics under supervision by staff from all clinical departments. A staff member of each clinical department has to assert that the graduate has satisfactorily completed the clinical training in his specialty before a student is granted his/her license to practice dentistry. If a student fails to satisfy the supervising staff in any specialty, he/she has to spend an additional period of training until he/she satisfies his/her supervisors.

Programme Learning Outcome of BUE is to provide conceptual and practical knowledge to the graduates who will be able to diagnose, prepare treatment plans, and execute most general dental procedures. The following attributes will be expected from our graduates:

A. Knowledge and Understanding

On successful completion of this programme students are expected to

A1. Identify the teeth, oral and paraoral tissue anatomy together with different human body system concerning their normal cellular structure and the possible pathogeneses related to .them

A2 detect the Biochemical reactions related to the function of different body systems and their interaction

.A3. Describe geneses , structure and function of oral and paraoral tissues

A4. Identify the pathogenic mechanism of different body systems which has oral manifestation

And the manifestation of human diseases of dental significance and some pathological conditions of soft oral and paroral tissues and how diagnose and treat them

A5. Identify the preventive approaches of Oral diseases through promoting oral health measures and nutrition education and systemic diseases control

A6. Demonstrate sufficient knowledge for prevention and the treatment management of emergency dental cases .

A8. Demonstrate sufficient knowledge for the comprehensive treatment and practical case management of different dental cases

A10. Identify the A9. Classify problems dealing with teeth malalignment and manage them basic principles and information related to dental care and management of cases on evident based scientific research knowledge

A11. Recall the necessary Ethical and medico-legal definitions related to practical and research profession aspects

A12. Identify basic principles for behavioral management , social and psychological patterns that could be referable to dental care case management.

B. Cognitive Skills

On successful completion of this programme students are expected to:

B1. Categories dental diseases according to the patients sign and symptoms based on .biomedical and dental sciences knowledge

B2. Distinguish differences between the normal and pathological pictures of dental , oral and paroral tissues

B3. Differentiate between normal and abnormal features and pathological conditions of oral and dental tissue through diagnosis or clinical examinationB4. Point out the priorities in managing patients clinical problem

B5.Categorize the dental and oral problems the patient complain fromB6. Analyze the data taken from the medical history of the patient

B7. Relate the patients problem to the appropriate treatment planB8. Select the appropriate treatment plane for the patient to solve the dental problem complaint

B9. Select the appropriate medication for dental managing the related problem

B10. Evaluate the effect of medications taken by the patient for interfering with the dental procedures

B11. Distinguish the medical condition of the patient through the history of the medications administered by the patient

B12. Deduce the needed treatment for the dental problem.

C. Practical and Clinical Skills

On successful completion of this programme students are expected to:

C1. Record a full case history for patients seeking dental care
C2. Perform full clinical examination for patient to evaluate the patients oral condition and to recommend further needed investigations
C3. Diagnose general medical cases in body systems in patients seeking dental care
C4. Manipulate oral and dental cases with special medical history and to identify any pathological conditions in dental , oral or paraoral tissues
C6. Diagnose cases that need implants, orthodontic treatment and/or maxillofacial surgery or prostheses

C7. Demonstrate the necessary skills and sufficient abilities for the comprehensive dental treatment and case completion with an appropriate emphasis on restorative dental treatment. of the patients assigned to

C7.1 . Manipulate preventive procedures in the dental cas

C7.2 Practice different local anesthetic techniques
C7.3 Conduct teeth and root extraction if necessary

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C7.4 Perform Oral lesions different diagnosis

C7.5 Conduct different types of radiographs and their interpretation

C7.6 Apply periodontal Non surgical procedures and follow up the results

C7.7 Managing tooth defects through emphasis of esthetics bases

C7.8 Apply the endodontic basic procedures

C7.9 Construction of partial and complete dentures

C7.10 Manage the cases of malocclusion

C7.11Perform the basic endodontic treatment

C8.Apply the infection control procedures and protocol needed when dealing with any clinical work

C9.Manipulate support procedures in emergency and different anxiety levels with patients with different ages

C10.Perform management for emergency medical and dental cases during dental practice

C11. Detect the effect of different pharmaceutical agents on patie

C12.Prescribe the appropriate drug for the patients condition

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D. Key/transferable skills

On successful completion of this programme students are expected to:

D1 Develop a harmonic team approach to conduct specialized clinical treatment plan for the assigned patients

D2 Effectively collaborate with verbal and non verbal means of communications in the different cultural work environment

D3 Effectively use all technological sources for applying evidence-based treatment and professional development

D4 Perform proper ethical approaches and scientific basics

D5 Evaluate personal professional abilities , performance and self progress

D6 Conduct Priorities for professional responsibilities to the surrounding community services

D7 Develop personal information to catch diversities of professional standards and appreciate using relevant and accurate information technology in providing contemporary dental care

D8 Perform the quality assurance principles in the practice and informational management

D9 Conduct proper performance through workload priorities arrangement and management personal stress

Programme structure and requirements, levels, modules, credits and awards

Dentistry at BUE is offered as five year full-time programme. The programme is divided into teaching units, called modules, which are each assigned a credit weighting. A basic **10-credit** module requires approximately 100 hours of student effort, which can include 45 hours of formal teaching and laboratory work. The remaining time is for coursework and tutorial completion, student-centred study and assessment. The maximum credit weighting for any one module is **30 credits**. In some occasions, a module may be given a weight of **5 credits**.

Normally, students study modules with a combined weight of **120 credits** in each academic year which is taught in **30-week** academic year; week **27** being a revision week, and weeks **28-29** being assessment weeks at the end of each academic year. Each academic year contains the equivalent of **120 credits**. The programme is structured such that formal examinations can take place at the end of each academic year. If other versions of the programme are introduced, a migration and transition strategy will be formulated so as to ensure that the students are not disadvantaged.

Glossary of Terms

- **Advanced Standing:** Admission beyond the normal point of commencement of the programme.
- **Award:** Any formal qualification awarded by the University to an individual student, which may be either an end qualification or an intermediate award.
- **Credit**: The unit of academic value by which successful completion of a module contributes to a student's programme of study.
- **Degree:** An end qualification that may be designated as Bachelor of Dental Surgery.
- **Learning Outcomes:** Statements of what a learner can be expected to know, understand and/or do as a result of a learning experience.
- **Level:** The designation of a module within a given programme.
- **Benchmark**: A point of reference
- **Cognitive**: Relating to the process of thinking and/or processing knowledge into new information
- **CPD:** Continuing professional development
- **Credits**: The relative weight of a module based on total student effort such that a basics 1 10-credit module requires approximately 100 hours of student effort.
- **Innovate**: To make changes, to introduce new ideas, methods, etc. [chambers online]

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- **Key transferable:** Are those generic/underpinning skills which are developed within skills degree programme but are independent from academic subject.
- **Underpin**: support/corroborate

Preclinical Requirements:

Preclinical Requirements:

The following minimum requirements must be fulfilled before a student is allowed to sit for the sixth semester exams in the respective courses .(Requirements could be submitted to minor changes if required which will be mentioned in course report.)

- **Operative Dentistry:**
  - Cavity Preparation: About 30 cavity preparations including at least 5 of each class of cavity.
  - Amalgam Fillings: About 10 amalgam fillings including at least 3 class II and 2 MODs.
  - Resin Composite Fillings: About 10 resin composite fillings including at least 3 class II posterior resin composite fillings and 3 class III fillings.
- **Endodontics:**
  - Single Rooted Teeth: preparation and obturation of about 5 root canals.
  - Multi-Rooted Teeth: preparation and obturation of root canals in about 2 teeth.
- **Fixed Prosthodontics:**
  - Crowns: tooth preparation and fabrication of at least 3 full veneer crowns.
  - Bridges: tooth preparation and fabrication of at least 1 simple 3-unit bridge.
- **Removable Prosthodontics:**
  - Full Dentures: laboratory fabrication of at least 2 full dentures.
  - Partial Dentures: laboratory fabrication of 3 partial dentures of which at least one is a metal-based partial denture.
- **Oral Radiology:**
  - Taking not less than 5 full mouth intra-oral radiographs
  - Taking two panoramic radiographs.
  - Written at least 2 reports on radiographic examination of 2 cases.
- **Oral Pathology:**
  - Diagnosis and reporting on slides of pathological cases.

Clinical Requirements:

The following minimum requirements must be fulfilled before a student is allowed to sit for the final exams in the respective courses:

- **Operative Dentistry**
  - at least Thirty amalgam fillings including not less than 5 class II and 5 MODs.
  - at least Twenty composite fillings including not less than 5 posterior composites
- **Endodontics:**
  - at least Ten root canal fillings of single rooted teeth
  - One root canal filling of a multi-rooted tooth
- **Fixed Prosthodontics**
  - Crowns: at least 5 veneer crowns
  - Bridges: at least 2 simple 3-unit bridges
- **Removable Prosthodontics:**
  - at least Six full dentures
  - at least Five partial dentures including at least 1 metal-based partial denture
- **Oral Surgery:**

Year 4:

- Requirements to perform at least 10 cases of local anesthesia using standard techniques under supervision.
- Requirements to perform at least 10 cases of simple exodontia under academic staff supervision.
- Requirements to deliver and submit a sponge with different surgical techniques and knots for evaluation and marking.

Year 5:

- Requirements to perform at least 20 cases of simple exodontia under academic staff supervision.
- Requirements to deliver and submit 2 sets of casts with IMF techniques using arch-bars and ivy-loops.

- **Oral Medicine and Periodontology:**
  - Comprehensive nonsurgical periodontal therapy for a minimum of 2 cases with plaque induced gingivitis and 1 case with mild to moderate periodontitis.
- Submission of at least one case with oral lesion diagnosed and treated with power point presentation of the full case.

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- Attending and participating in oral diagnosis clinic and submitting at least 5 full diagnostic charts.

- **Paedodontics:**

- Preparation of different cavity designs on at least four molars.
- Four pulpotomy procedures on primary molars.
- Performing pits and fissure sealing techniques on two permanent molars.
- Submission of posters and brochures on topics related to public health and pediatric dentistry.
- Attending & participating in Paediatric clinics

- **Orthodontics:**

  - Fabrication of at least 2 simple removable orthodontic appliances.
  - Two reports on at least 2 patients that they have examined in the orthodontic clinic.

Programme Structure

Level One

First academic year

Course Code	Course Name	Lectures (hrs)	Pract (hrs)	Cntct (hrs)
DGMS01P01	G Anatomy	2	2	4
DGMS02P01	H Physiology	2	2	4
DGMS03P01	Biochemistry	2	2	4
DGMS04P01	G Histology	2	2	4
DGMS05P01	Microbiology	1	2	3
DOBD01P01	Human Dentition	2	3	5
ENG xxxxx	English Language	2	0	2
		13	13	26

Level Two

Second year

Course Code	Course Name	Lect (hrs)	Prct (hrs)	Cntct (hrs)
DRES01C01	Oper Dent Tech	1	2	3
DCRB01C01	Crown & Br Tech	1	2	3
DPRS01C01	Rem Prosth Tech	1	2	3
DMAT01C01	Dental Materials	2	2	4
DOBD02C01	Oral Biology	2	2	4
DGMS6C01	Pharmacology	2	2	4
DGMS7C01	G Pathology	2	2	4
UELC01C01	Elective Module	2	0	2
		13	14	27

Third Year

Course Code	Course Name	Lecture (hrs)	Prctl (hrs)	Cntct (hrs)
DRES02C01	Oper Dent Tech II	1	4	5
DCRB02C01	Crown & Br Tech II	1	4	5
DPRS02C01	Rem Prosth Tech II	1	4	5
DOPT01C01	Oral Pathology	3	2	5
DEND01C02	Endodontic Tech I	1	4	5
DRAD01C01	Oral Radiology	1	2	3
DGMS08C01	G Medicine + G Surgery	1+1	0	2
		10	20	30

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Level Three

Fourth year

Course Code	Course Name	Lect (hrs)	Clinical (hrs)	Cntct (hrs)
DRES03I01	Operative Dentistry I	1	4	5
DCRB03I01	Crown & Bridge I	1	4	5
DPRS03I01	Remov Prosthetics I	1	4	5
DORP01I01	Orthodontics	1	2	3
DOSA01I01	Oral Surgery I	2	4	6
DOMD01I01	Oral Medicine I, Diagnosis & Radiology	3	4	7
		9	22	31

Fifth year

Course Code	Course Name	Lect (hrs)	Clinical (hrs)	Cntct (hrs)
DRES04H01	Operative Dentistry II	1	4	5
DCRB04H01	Crown & Bridge II	1	4	5
DEND02H01	Endodontics II	1	4	5
DPRS04H01	Removable Prosthetics II	1	4	5
DOSA02H01	Oral Surgery II	2	4	6

DOMD02H01	Oral Medicine II, Perio, Diagnosis & Radiology	3	4	7
DPED01H01	Paedodontics and Preventive Dentistry	2	2	4
		11	26	37

Optional Modules

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Cntct (hrs)
DHNT04I01	Human Nutrition	2	----------	2
DPHT04I01	Dental Photography	2	----------	2
DCPS04I01	Computer Sc and Dental Informatics	2	----------	2

Notes:

If a different programme is approved from that currently offered at the University a migration and transition strategy will be formulated so as to ensure that the students are not disadvantaged.

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Module Specifications

General Anatomy

Module Code: DGMS01P01	**Title:** G Anatomy
Contact Hours: 4	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Sameh Doss	
Academic Year taught: 1st year	
Key words: Anatomy, Bones, Muscles, Nerves, Arteries	
Date of latest revision: October 2012	

This module is divided into four parts: 1) Osteology of the skull and the human body. 2) detailed anatomy of the head and neck and organs of the thorax and abdomen. 3) Angiology, the heart and the main arterial, venous and lymphatic vessels, and the circulatory pattern of the body are presented. Emphasis will be on the vasculature of the head and neck with clinical correlation. The major blood supply of the thorax and abdomen will be discussed. 4) Neurology, anatomy of the central, peripheral and autonomic nervous systems will be discussed. Emphasis will be on cranial nerves and the autonomic enervation of the head and neck structures. Clinical correlation will be stressed.

Human Physiology

Module Code: DGMS02P01	**Title:** H Physiology
Contact Hours: 4	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Dr. Enas Abd El Aziz	
Academic Year taught: 1st year	
Key words: Physiology, Circulation, Respiration, Digestion	
Date of latest revision: October 2012	

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This module focuses on introducing the student to the basics of how the human body functions. Emphasis will be placed on understanding physiological principles. Each body system is reviewed with reference to function and its role in the balanced mechanisms that control homeostasis.

Biochemistry

Module Code: DGMS03P01	**Title:** Biochemistry
Contact Hours: 4	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Hebatollah Said	
Academic Year taught: 1st year	
Key words: Biochemistry, Metabolism, Carbohydrates, Proteins, Lipids	
Date of latest revision: October 2012	

This module is designed to give a general background in Medical Biochemistry with special emphasis on special topics relevant to dentistry and oral health care by:

- Enabling students to understand the essential topics of biochemistry including micro- & macromolecules of carbohydrates, lipids, proteins, nucleotides & nucleic acids and to be oriented with the biochemical importance of micronutrients as well as the structure and function of enzymes.
- Enabling students to describe the biological membrane, the role of free nucleotides and macromolecules involved in transmission of information from gene expression to the formation of the functioning proteins.
- Enabling students to point-out hereditary and acquired metabolic disturbances and their biochemical laboratory and clinical outcomes.
- Enabling students to be oriented with physico-chemical basis of biological systems and related clinical problems.
- Enabling students to point out the bioenergetics of metabolic pathways and their integrated regulations with other working metabolic pathways.
- Enabling students to describe major body fluids composition and to interpret medical laboratory reports.

General Histology

Module Code: DGMS04P01	**Title:** G Histology
Contact Hours: 4	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ayman Ghallab	
Academic Year taught: 1st year	
Key words: Histology, Cell, Nucleus, Mitochondria	
Date of latest revision: October 2012	

This module introduces the dental student to normal human cell and tissue structures. Lectures on general histology include the basic tissues of the body and special systemic tissues. The histology of various organ systems and the functional importance of these organs to the maintenance of general and oral health will be discussed.

Medical Microbiology

Module Code: DGMS05P01	**Title:** Microbiology
Contact Hours: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Dr. Ahmed Sherif Attia	
Academic Year taught: 1st year	
Key words: Bacteria, Viruses, Fungi	
Date of latest revision: October 2012	

The module enables the student to understand how micro-organiGMS live and infect humans, and how humans respond to these infections in order to preserve health. The first part of the course presents basic microbial structure, function and genetics and principles of chemotherapy and drug resistance. The second part presents mammalian host defences and the molecular basis of immunity. The third part presents the biologic and clinical bases of infectious diseases of all major organs including the oral cavity.

Descriptive Dental Anatomy (Human Dentition)

Module Code: DOBD01P01	**Title:** Human Dentition
Contact Hours: 5	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Aly El Sahn	
Academic Year taught: 1st year	
Key words: Cusp, Fossa, Fissure, Cingulum	
Date of latest revision: October 2012	

This course is designed to provide the dental student with the necessary knowledge to identify the definitions of introductory dental terminology. The course also allows the student to recognize the functions of the human teeth. The student will be able to utilize the correct names and universal code numbers of each permanent and deciduous tooth. The course also provides the student with the general and specific features of permanent teeth.

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Operative Dentistry Technology

Module Code: DRES01C01 - 02C01	**Title:** Oper Dent Tech - Oper Dent Tech II
Contact Hours: 3+5	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Aly El-Sahn	
Academic Year taught: 1st year	
Key words: Caries, Cavity, Filling	
Date of latest revision: October 2012	

This is a preclinical course designed to introduce the student to the science of operative dentistry. provides students with basic principles about cavity preparation and restorative techniques f amalgam and resin composite restorations. The first academic year deals with basic definition nomenclature, instruments used and principles of cavity preparation and cutting dental tissues. Th second academic year deals with the properties, characteristics and handling of the most common used dental materials, enabling the student to acquire the knowledge and skills necessary for th diagnosis and treatment of carious lesions.

Fixed Prosthodontics Technology

Module Code: DCRB01C01- 02C01	**Title:** Crown & Br Tech I - Crown & Br Tech II
Contact Hours: 3+5	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Tarek Salah	
Academic Year taught: 1st year	
Key words: Crown, Bridge, Veneer, Ceramic	
Date of latest revision: October 2012	

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The preclinical lecture and laboratory course is concerned with beginning to appreciate and recognize the principles and techniques of tooth preparation for Fixed Prosthodontics. It also acquaints and trains the student in the laboratory work and techniques required in the field of Fixed Prosthodontics.

Removable Prosthodontics Technology

Module Code: DPRS01C01-02C01	**Title:** Rem Prosth Tech I - Rem Prosth Tech II
Contact Hours: 3+5	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Fardos Rizk	
Academic Year taught: 2nd year	
Key words: Denture, Acrylic, Clasp, Chrome Cobalt	
Date of latest revision: October 2012	

The preclinical and laboratory course provides an introduction to the concepts of diagnosis and treatment planning, fabrication, placement and maintenance of complete dentures, as well as the related biological and mechanical factors that must be incorporated for living tissues to be compatible with complete dentures. The course is also designed to teach the student didactically and in the laboratory the principles and procedures for providing removable partial dentures with emphasis on considerations such as support, occlusion, and health of the oral structures.

Dental Materials

Module Code: DMAT01C01	**Title:** Dental Materials
Contact Hours: 4	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Said Seniour	
Academic Year taught: 2nd year	
Key words: Amalgam, Acrylic, Composite, Porcelain	
Date of latest revision: October 2012	

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This course covers the chemical, physical and biological properties of dental materials as related to their applications in different branches of dentistry. Emphasis will be placed upon the types of materials available, their selection and manipulation, and the recognition of the effects of proper and improper manipulation on both the intermediate and the final products. The course also covers the properties of dental materials relative to clinical restorative and prosthetic dentistry. Emphasis is placed upon proper selection and manipulation of dental

materials based on their properties and clinical performance.

Oral Biology

Module Code: DOBD02C01	**Title:** Oral Biology
Contact Hours: 4	
Prerequisite modules: General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr Halla zaatar	
Academic Year taught: 2nd year	
Key words: Enamel, Dentine, Cementum, Pulp	
Date of latest revision: October 2012	

The course introduces the student to the histology, embryology, biochemistry and ultra structure of the oral tissues and structures. The age changes of hard dental tissues and the mechanisms of organic matrix formation and mineralization of hard dental structures are stressed.

Pharmacology

Module Code: DGMS6C01	**Title:** Pharmacology
Contact Hours: 4	
Prerequisite modules: Human Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: prof. Dr. Said El Rokh	
Academic Year taught: 2nd year	
Key words: Antibiotics, Analgesics, Antifungal	
Date of latest revision: October 2012	

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Pharmacology course is divided into two phases. The first phase includes a thorough study of basic concepts and principles in pharmacology using mainly prototype drugs. Emphasis is placed on the mechanism of action of drugs, their medicinal uses and side effects. The second phase deals with clinical aspects of therapeutics, pharmacokinetics and pharmacodynamics for drugs acting on different organ systems considering drug interactions, indications and contra-indications

General Pathology

Module Code: DGMS7C01	**Title:** G Pathology
Contact Hours: 4	
Prerequisite modules: Human Physiology, General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: **Prof. Dr.** Magdy Morad	
Academic Year taught: 3rd year	
Key words: Inflammation, Hyperplasia, Neoplasia	
Date of latest revision: October 2012	

The course introduces students to the concepts of cell injury, the principles of inflammation and repair, fluid derangements, developmental disorders, genetic, environmental and nutritional diseases, common infectious diseases, neoplasia, and cardiac, pulmonary and renal disorders. Emphasis is placed on understanding how changes in the general health of patients may affect the oral and head and neck regions, and how this may relate to the clinical practice of dentistry.

Oral Pathology

Module Code: DOPT01C01	**Title:** Oral Pathology
Contact Hours: 5	
Prerequisite modules: General Pathology, General Histology, Oral Biology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Looloaa Mohamed	
Academic Year taught: 3rd year	
Key words: Caries, Enamel Hypoplasia, Dry Socket, Squamous Cell Carcinoma	
Date of latest revision: October 2012	

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This is a comprehensive course on oral and para-oral lesions and diseases. It deals with the aetiology, pathogenesis, incidence, clinical, radiographic and histopathological aspects and prognosis of such lesions. It also touches on the management of such lesions where relevant.

Orthodontics

Module Code: DORP01I01	**Title:** Orthodontics
Contact Hours: 3	
Prerequisite modules: Oral Biology	
Reassessment: Re-sit exam in the following semester	
Internal examiner: Prof. Dr. Nadia Metwalli	
Semester taught: 3rd Year	
Key words: Occlusion, Malocclusion,	
Date of latest revision: October 2012	

The course prepares the student to clinically manage patients with orthodontic problems by developing his skills in biomechanics and mechanic therapy. Emphasis will be laid on the biological and technological principles of orthodontic tooth movement. Laboratory sessions are included to demonstrate and develop most of the technical skills required for the graduate to be able to provide limited clinical orthodontic treatment. Laboratory exercises involve banding, bonding, soldering, welding, bracket positioning, wire bending, ligating and establishment of anchorage. The course enables the student to participate in the prevention of the development of occlusal abnormalities and prepares him/her for future advanced postgraduate studies.

Oral Radiology

Module Code: DRAD01C01	**Title:** Oral Radiology
Contact Hours: 3	
Prerequisite modules: General Anatomy, Oral Biology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Moshira Salah	
Academic Year taught: 3rd year	
Key words:	
Date of latest revision: October 2012	

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The course teaches the fundamentals of x-ray generation physics, radiographic image production, and radiographic techniques. It also stresses the biological effects of radiation and radiation hygiene, and ways of protection from radiation.

General Medicine

Module Code: DGMS08C01	**Title:** G Medicine
Contact Hours: 1	
Prerequisite modules: General Anatomy, Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Ibrahem Yehia	
Academic Year taught: 3rd year	
Key words: Endocrine Glands, Cardiovascular System	
Date of latest revision: October 2012	

The course is aimed at teaching the student the principles of internal medicine as they pertain to provision of dental care. It focuses on the aetiology, incidence and treatment of diseases including cardiovascular diseases, pulmonary diseases, gastro-intestinal diseases, haematology, diseases of the endocrine system, neurological diseases and oncology. There is also a course on skin and venereal diseases and their oral manifestations.

General Surgery

Module Code: DGMS08C01	**Title:** G Surgery
Contact Hours: 1	
Prerequisite modules: General Anatomy, General Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Mohamed Fayek	
Academic Year taught: 3rd year	
Key words: Wound Healing, Haemorrhage, Ulcers	
Date of latest revision: October 2012	

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The course is designed to provide basic understanding of general surgery. It prepares the dental student to know how to deal with general problems such as shock, haemorrhage, infections (specific and non-specific), management of trauma, sepsis and asepsis, emergency care, in order to comprehend the oral surgery course later on in his study. Emphasis is being placed on wound healing, haemostasis, and wound infection. The course also includes Lectures on ophthalmology and ear, nose and throat surgery and the

relationship between ear, nose and throat as well as ophthalmology to diseases of the oral cavity.

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Operative Dentistry

Module Code: DRES03I01 + 04H01	**Title:** Operative Dentistry I - Operative Dentistry II
Contact Hours: 5+5	
Prerequisite modules: Operative Dentistry Technology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Aly El-Sahn	
Academic Year taught: 4th and 5th years	
Key words: Amalgam, Resin Composite, Filling, Cavity Preparation, Caries	
Date of latest revision: October 2012	

The course is continuous over the fourth and fifth years. The fourth year course introduces the student to the clinical application of skills acquired in the preclinical year. Instruction is focused on early development of diagnosis and treatment planning skills, along with the execution of basic Restorative dental treatment. The fifth year course presents more advanced techniques and treatment planning for advanced and complex Restorative needs. Emphasis is placed on aesthetic dentistry, contemporary procedures in operative dentistry and adhesives.

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Fixed Prosthodontics

Module Code: DCRB03I01 + 04H01	**Title:** Crown & Bridge I, Crown & Bridge II
Contact Hours: 5+5	
Prerequisite modules: Dental Materials, Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Tarek salah	
Academic Year taught: 4th and 5th years	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: October 2012	

The course is continuous over the fourth and fifth years. The course introduces the student to the clinical application of skills acquired in his previous crown and bridge preclinical training. Instruction is focused on early development of diagnosis and treatment planning skills, along with the execution of basic fixed partial denture prosthodontics. The course also allows interaction between the dental student and the professional dental laboratory technician. The course also presents more advanced techniques and treatment planning for advanced and complex fixed prosthodontic needs as well as the principles of crown and bridge in implant dentistry.

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Removable Prosthodontics

Module Code: DPRS03I01-04H01	**Title:** Remov Prosthetics I-Remov Prosthetics II
Contact Hours: 5+5	
Prerequisite modules: Dental Materials, Removable Prosthetics Technology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. fardos Rizk	
Academic Year taught: 4th and 5th years	
Key words: Complete denture, Partial denture, Acrylic, Chrome cobalt	
Date of latest revision: October 2012	

The course is continuous over the fourth and fifth years. The fourth year course introduces the student to the clinical application of skills acquired in the preclinical year. Instruction is focused on early development of diagnosis and treatment planning skills, along with the execution of basic removable complete and partial denture prosthodontics. The course also allows interaction between the dental student and the professional dental laboratory technician. The fifth year course presents more advanced techniques and treatment planning for advanced and complex removable prosthodontics needs. Subjects included are immediate dentures, single dentures, overdentures and implant supported dentures.

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Endodontics

Module Code: DEND02H01	**Title:** Endodontics II
Contact Hours: 5	
Prerequisite modules: Endodontics Technology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Medhat Kattaya	
Academic Year taught: 5th year	
Key words: Root canal, Pulp, Periapical lesion	
Date of latest revision: October 2012	

The course builds on the fundamentals taught in the preclinical course. It presents advanced techniques and treatment planning for advanced and complex Endodontic needs. The study encompasses the preclinical phase including the biology of the normal pulp and the aetiology, diagnosis, prevention and treatment of pulp disease and injuries, as well as disease of the periapical tissues.

Oral Surgery & Anaesthesia

Module Code: DOSA01I01- 02H01	**Title:** Oral Surgery I - Oral Surgery II
Contact Hours: 6+6	
Prerequisite modules: Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Tarek Abbas Hassan	
Academic Year taught: 4th and 5th years	
Key words: Extraction, Fracture, Enucleation, Cyst, Tumour	
Date of latest revision: October 2012	

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The course is continuous over the fourth and fifth years. The fourth year course provides the student with basic knowledge about oral and maxillofacial surgery as they relate to the general practitioner of dentistry. The course includes an overview of aseptic techniques, an introduction to surgical instruments, as well as principles of tooth extraction and minor oral surgery. The fifth year course is an overview of the specialty of oral and maxillofacial surgery.

The student is introduced to the surgical management of congenital and acquired abnormalities of the oral structures and associated parts. He is trained in the management of odontogenic infections, cysts and tumours of the oral tissues, as well as the role of the dentist in the early diagnosis and in the care of head and neck cancer patients. He is trained in the diagnosis and management of facial fractures, particularly emergency care as far as the general practitioner is concerned.

Oral Medicine, Periodontology, Oral & Radiographic Diagnosis

Module Code: DOMD01I01 + 02H01	**Title:** Oral Medicine I, Diagnosis &Radiology – Oral Medicine II, Perio , Diagnosis &Radiology
Contact Hours: 7+7	
Prerequisite modules: Oral Biology, Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Dr. Moshira Salah	
Academic Year taught: 4th & 5th years	
Key words: Gingivitis, Periodontitis, Scaling	
Date of latest revision: October 2012	

The course aims at establishing didactic information, knowledge and skills necessary for effectively diagnosing and non-surgically treating patients suffering from systemic and/or other local diseases affecting the oral and the head and neck regions. The course also introduces students to the importance of periodontics as a dental discipline. Emphasis is placed on understanding the basic micro- and macro-anatomy of the healthy tissues of the periodontium as well as its physiology. In addition, the student will be introduced to the diseased periodontium with special emphasis on aetiology, epidemiology and clinical and histopathological aspects of the disease.

Paedodontics

Module Code: DPED01H01	**Title:** Paedodontics and Preventive Dentistry
Contact Hours: 4	
Prerequisite modules: Operative Dentistry, Endodontics	
Reassessment: *Re-exam in August*	

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Internal examiner: Prof. Dr. Nadia Metwalli
Academic Year taught: 5th year
Key words: Pulpotomy, Traumatised incisors, Rampant caries, Preventive dentistry
Date of latest revision: October 2012

The course prepares the student to provide comprehensive dental care to his paediatric patients in order to produce a more ideal oral structure from a metabolic, functional and aesthetic view point in these growing organisms. It also provides the dental student with experience in proper management, behaviour modification and the ability to establish a positive attitude towards dental treatment in his young patients. It teaches students to recognize situations that require consultation with or referral to other health care professionals. More importantly, it aims at preparing a student who is able to provide proper oral health education and prevention to his paediatric patients and their parents.

Optional Modules

Human Nutrition

Module Code: DHNT04I01	**Title:** Human Nutrition
Modular weight: 10	
Prerequisite modules: None	
Reassessment: Re-sit exam at the end of the following semester	
Internal examiner: Professor Muchira Salah	
Semester taught: 2nd Year	
Key words: Vitamins, Minerals, Carbohydrates, Proteins, Fats, Water	
Date of latest revision: October 2012	

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Human nutrition is now known to be be the most essential factor in health maintenance. The aim of the present module is to acquaint dental students with the basics of .proper human nutrition for their own health as well as for their patients'.

Dental Informatics

Module Code: DCPS04I01	**Title:** Computer Sc and Dental Informatics
Modular weight: 10	

Prerequisite modules: None
Reassessment: Re-sit exam at the end of the following semester
Internal examiner: Prof. Dr. Ali El Sahn
Semester taught: 2nd Year
Key words: Carbohydrates, Proteins, Fats, Vitamins, Minerals
Date of latest revision: October 2012

This course discusses several topics related to the use of new technologies in the information science and communication as applied to the learning, Research and clinical practice of dentistry. This course covers topics in managing the patients' electronic record, dental imaging and the use of communication and internet technologies in dental practice.

Dental Photography

Module Code: DPHT04I01	**Title:** Dental Photography
Modular weight: 10	
Prerequisite modules: None	
Reassessment: Re-sit exam at the end of the following semester	
Internal examiner: Prof. Dr. Ali El sahn	
Semester taught: 2nd Year	
Key words: Light Colours, Digital Imaging, Range Finder	
Date of latest revision: October 2012	

This course is designed to introduce the student to some basic and advanced photographic techniques which enable the student to utilize oral and dental photography as an aid of scientific Research and appreciate modern trends in the field of photography and understand the facilities offered by and the limits imposed by cameras.

A.M.Hamed 7/3/2020