Faculty of Dentistry

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

Programme

2021

Vision

The Faculty of Dentistry British University in Egypt is committed to excellence in education, Research and community services seeking regional and global accreditation and world-wide recognition.

الرؤيه

تتطلع كلية طب الأسنان بالجامعة البريطانية في مصر إلي تحقيق مستوي متميز في التعليم والبحث العلمي وخدمة المجتمع وأن تكون كليتنا معتمدة محليا وإقليمياً ومتميزةعالمياً .

Mission

The faculty of Dentistry British University in Egypt is committed to prepare highly skilled graduates with innovative dental education in accordance with the National Academic Reference Standards through achieving Knowledge offering highest quality patient care and services to diversities, research and meet with community requirements.

الرسالة

تلتزم كلية طب الأسنان بالجامعة البريطانية في مصر باكساب خريجي الكلية مهارات عالية و تعليم متميز بمجال طب الأسنان وفقا للمعايير الاكاديمية القومية لتحقيق التنوع المعرفي و تطوير البحث العلمي و تقديم الرعاية و الخدمات عالية الجوده للمرضى و المساهمة في تلبية متطلبات المجتمع

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 aimed primarily at educating and training graduates for efficient dental practice in the new century. Students have to finish successfully 190 Credit hours (182 Credit hours Faculty core requirements, 4 Credit hours University requirements) and 4 credit hours elective module over the 5 years 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 graduate 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 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 Faculty requirement and elective modules have been added to the programme of study to allow dental students to interact with and be better equipped for their society and its problems.

The Faculty of Dentistry, BUE is committed to graduate dentists who are characterized by theoretical knowledge, clinical skills, mature 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 work, 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.

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.
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**

[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).

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.

Article 4

The following subjects are studied in the different phases:

1. Phase I (**P**) – First academic year: Human Dentition, Human Physiology, Biochemistry, General Histology, Microbiology, General and Applied Clinical Anatomy and English Language and two elective modules.
2. Phase II (**C**): (Basic and Applied Dental Sciences, Pre-Clinical) – Second and third academic years: Oral Biology, General Pathology, Pharmacology and Advanced Pharmacotherapy, Bio Physics and Dental Materials, Conservative Dentistry Preclinical, Removable Prosthodontics Preclinical, Fixed Prosthodontics Preclinical, Endodontics Preclinical, Oral Pathology, General Medicine, General Surgery, Oral Radiology Preclinical, Infection control in Dental Practice, Professional Dental Ethics.
3. Phase III (Clinical) (**I** & **H**) – Fourth (**I**) and fifth (**H**) academic years: Orthodontics, Conservative Dentistry Clinical, Removable Prosthodontics Clinical, Advanced Maxillofacial prosthodontics, Advanced Prosthodontics and Implantology, Fixed Prosthodontics Clinical, Endodontics Clinical, Oral Radiology Clinical, Oral Surgery and Anaesthesia, Oral Medicine and Diagnosis, Geriatrics and Special Health Care, Periodontology, Dental Public Health, Paediatric and Preventive Dentistry and Comprehensive Clinical Dentistry.
4. 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:

Core Modules

1. Oral Biology
    a. Human Dentition (Descriptive Dental Anatomy)
    b. Oral Biology and Oral Histology
2. Dental Prosthetics
    a. Removable Prosthodontics

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   b. Maxillofacial Prosthodontics
   c. Implant Prosthetics
   d. Bio Physics and Dental Materials
   e. Fixed Prosthodontics
3. Restorative Dentistry
   a. Conservative Dentistry
   b. Endodontics
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. Paediatrics
   a. Paediatric and Preventive Dentistry
   b. Dental Public Health
7. Orthodontics
   a. Orthodontics
8. Oral Medicine and Periodontology
   a. Oral Medicine and Oral Diagnosis
   b. Periodontology
   c. Oral Radiology
9. General Medical Sciences
   a. General and Applied Clinical Anatomy
   b. Human Physiology
   c. Biochemistry
   d. General Histology
   e. Microbiology
   f. Pharmacology and advanced Pharmacotherapy
   g. General Pathology
   h. General Medicine, Dermatology and Venereal Disease
   i. General Surgery, Ophthalmology and ENT
10. Comprehensive Clinical Dentistry
11. Geriatrics and Special Health Care
12. Dental Professional Ethics
13. Infection control in Dental Practice

University Required Modules

English Language

Elective Modules

1. Dental Photography

2. Dental Informatics
3. Human Nutrition

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 and from Phase II to Phase III before successful completion of **all faculty required core modules**. A student is allowed to re-sit exams in the summer re-assessment period in a maximum of **16 credit hours**. 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** and English Language could be trailed till fifth year. Students shall not be granted the B.D.S. degree before successful completion of all faculty required core and university required modules (English Language) and two elective modules.

Article 8

Students are expected to attend all time tabled classes. Assessments in all modules take place throughout the semester. The final examinations shall take place during the designated examination period at the end of each semester, 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 must gain a minimum pass mark of **60%** in all Faculty required core modules with a **minimum mark of 30%** in the **written and practical** examination in **each** module.
3. Students must gain a minimum pass mark of **50%** in University required modules (English Language).
4. Students must gain a minimum pass mark of **50%** in Elective modules and their marks are added to the total marks of the semester and the cumulative total marks.

Article 14

The marking scheme for all modules are as follows:

Mark	Grade	SCU Classification
90-100	A	Excellent
85 to<90	A-	Excellent
82 to< 85	B+	Very Good
78 to< 82	B	Very Good
75 to< 78	B-	Very Good
72 to< 75	C+	Good
68 to< 72	C	Good
65 to< 68	C-	Good
60 to<65	D+	Satisfactory
<60	F	Fail

The overall average for graduation is calculated on the basis of the entire programme of study, weighted according to the module credit hour 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.

Article 16

Teaching Methodology:

The method of teaching varies according to programme and individual modules, but is a mixture of lectures, practical, chair side and online teaching, clinical sessions, 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: 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.

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.

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.

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 independent 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.

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

Core modules

In Course Assessment (Participation, Quizzes, Assignments, Oral Exam)	30%
Practical / Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Elective modules

In Course Assessment (Participation, Quizzes, Assignments and Oral Exam)	50%
Final Unseen Written End of Semester Exams	50%
Total	**100%**

University Required Module (English Language)	
In Course Assessment (Participation, Quizzes, Assignments)	40%
Final Presentation	20%
End of Semester Assessment	40%
Total	**100%**

The participation, quizzes, assignments 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 Faculty required core 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** and English language could be trailed till fifth year.

Re-sit examinations for students who fail no more than 16 credit hours 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 modules during the academic year:

- **End of semester one Exams** at the end of the Fall Term (January- February).
- **End of semester two Exams** at the end of the Spring Term (May – June).
- **Re-sit Exams for any failed module** at the summer time (August - September).
- 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 the academic years, is assessed and given a credit hour 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 and 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).

17.3 Exemptions from Examinations

Exemptions from Quizzes, Practical Exams and any course work in any module may be granted by the Faculty Board to students who have attended the required percentage of attendance but who are prevented from attending these examinations 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. 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; the marks given will be included within the 2% of total marks mentioned above.

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.

Article 18

In case of any pandemic conditions or crisis management teaching methodology and assessments guides and regulation could be adjusted to hybrid or online work upon regulations of Supreme Council of the Universities and after University Board and Faculty Council Approval.

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

Version 1.1 (2019/2020)

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

Degree:

Dental Surgery

Programme Co-ordinator:

Prof. Tarek Abbas Hassan

Details of accreditation by a professional/statutory body:

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:

September 2021

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. Analyse 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.

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.
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.

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- 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.
- 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.

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- 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.

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, written examinations based on previewed material, practical examinations oral examinations, laboratory and clinical 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).

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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 and clinical logbooks, project reports and/or papers, project logbooks, work placement reports and practical examinations.

Summer Clinical Training

1. After the third year each student **may** be allocated to a hospital or dental clinic approved by the Faculty of Dentistry, while no credits are earned. During the practical training the student **assists** the professional staff in minor tasks.
2. After the fourth year each student **may** be allocated to a hospital or dental clinic approved by the Faculty of Dentistry, while no credits are earned. This aims primarily at educating and training students for efficient dental practice and helps in fulfilling some of the **clinical requirements** necessary for his/her graduation. This will be undertaken under qualified staff supervision.
3. This training will be carried out at the Faculty's clinics during the summer vacation, under senior university staff supervision. Students will be able to have a 4 week summer holiday.

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 and preferably six 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 seminars in the clinics and reviews of all integrated 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. Staff members of all clinical departments have to assert that the graduate has satisfactorily completed the integrated clinical training in all specialties. Comprehensive Dentistry involving all aspects of dental care and covering all dental specialties has to be finished 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.

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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

1. Have a thorough understanding of the healthy human body through knowledge of the Basic Medical Sciences related to dentistry: General and Applied Clinical Anatomy, Human Physiology, Biochemistry, General Histology that will give them the needed knowledge.
2. Develop thorough understanding of the healthy oral cavity by becoming thoroughly acquainted with knowledge in basic sciences related to the oral cavity in: Human Dentition, Medical Microbiology (including Oral Microbiology) and Oral Biology including Oral Histology and Embryology of the face and the oral cavity.
3. Develop thorough understanding of the diseases that affect the human body by acquiring knowledge from the molecular biological level up to and including the organ system level. The understanding includes not only causation of the disease, but also its diagnosis, clinical, radiographic, and histopathological appearances and management as well as its prevention. Specifically, students are expected to understand the implications of general disease patterns for diagnosis and management of maxillofacial and dental problems: General Pathology, Pharmacology, General Medicine, General Surgery and Diagnosis are intended to assist the student in this effort.
4. Develop specific knowledge of the disease processes that are unique to the oral cavity: their causation, prevention, diagnosis, and treatment. The modules in Oral Pathology, Oral Medicine, Conservative Dentistry (including Cariology), Prosthodontics, Periodontics, Endodontics, Orthodontics, Paediatric and Preventive Dentistry, Dental Public Health, Oral Radiology, and Maxillofacial Surgery (including Anaesthesia and Pain Control) provide the student with the basic knowledge to meet this goal.
5. Commensurate with the University and Faculty objectives, the students are expected to develop the necessary understanding of Infection control and Professional dental ethics of the profession.
6. Develop and demonstrate sufficient skills and knowledge for the comprehensive treatment, case management and first aid of their patients.
7. Develop and demonstrate their ability to critically read, review, and appraise the dental literature.

B. Cognitive Skills

On successful completion of this programme students are expected to:

8. Build on their earlier developed skills and develop the manual skills that are necessary to permit them to begin patient treatment in a clinical setting. The pre-clinical laboratory modules in Restorative Dentistry, Removable Prosthodontics and Fixed Prosthodontics, provide the students with the necessary experience to meet this goal.
9. Develop the necessary skills in Diagnosis and Treatment Planning. They are expected to demonstrate their ability to prepare appropriate diagnosis and treatment plans, to present the diagnosis and treatment options to their patients, to manage the dental care of assigned patients throughout the course of their treatment and to present cases to their peers.
10. Develop the necessary skills to work in a hospital environment. The Specialised dental clinics assist them to meet this goal.
11. Acquire and develop the necessary skills to execute infection control and asepsis by studying modules in Medical Microbiology and Infection Control.
12. Develop the necessary skills to manage emergency cases.
13. Develop the necessary skills to interact with different specialties and departments. Specialised clinical work will allow them to achieve this goal.
14. Develop the necessary skills in perceiving colour and aesthetics (through the Fixed Prosthodontics, Removable Prosthodontics, and Restorative Dentistry modules).

C. Practical and Clinical Skills

On successful completion of this programme students are expected to:

15. Develop the necessary skills and demonstrate sufficient abilities for the comprehensive treatment and case completion of the patients assigned to them. The comprehensive treatment must involve all aspects of general dental care, with an appropriate emphasis on restorative dental treatment and prosthodontics.
16. Develop the necessary skills and demonstrate sufficient abilities in treatment of general restorative cases with different filling materials, treatment of completely and partially edentulous cases by using complete and partial denture and over denture, treatment by using simple crown and bridge prostheses, endodontic treatment, execution of all types of extractions and minor oral surgery, periodontal treatment, root planning, prophylaxis, simple periodontal surgery and simple implant cases.
17. Diagnose the need for orthodontic care and learn to fabricate simple orthodontic appliances.
18. Be able to perform primary dental care for children.

19. Be able to diagnose and refer to specialists cases that need specialised orthodontic treatment and/or maxillofacial surgery or prostheses.
20. The graduate will be able to fabricate most types of prostheses in the lab, process acrylic resin, correct technical errors, and cast different types of metals. Students will be also taught to write laboratory prescriptions and to critically assess the quality of laboratory work.

D. Key/transferable skills

On successful completion of this programme students are expected to:

21. Appreciate using relevant and accurate information technology in providing contemporary dental care.
22. Develop a team approach to conduct specialised clinical treatment plan for the assigned patients.
23. Critically read, appraise, and review the dental literature.
24. Perform critical thinking and problem solving in dental education.
25. Apply evidence-based treatment.
26. Be fully aware of the necessity to **limit interventions to the minimum** necessary to achieve the desired outcomes.
27. Have developed analytical and presentational skills through the preparation, delivery and participation in assessed seminars
28. Recognize the role of life-long learning and self-assessment in maintaining professional competence.
29. Use computers, electronic library, compact discs, multimedia presentations, and photography in his clinical practice.

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 hours weighting.

Normally, students study modules with a combined weight of **19 credit hours** in each semester which is taught in **15** weeks, week **13** being a revision week, and weeks **14-15** being assessment weeks at the end of semester. Each academic year contains the equivalent of **38 credit hours**. The programme is structured such that formal examinations can take place at the end of semester. 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

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- **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 hours**: 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
- **Innovate**: To make changes, to introduce new ideas, methods, etc. [chambers online]
- **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:

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

- **Conservative Dentistry:**
  - Cavity Preparation: 30 cavity preparations of different classes.
  - Amalgam Fillings: 15 amalgam fillings class I and II.
  - Resin Composite Fillings: 20 resin composite fillings of different classes.
- **Endodontics:**
  - Single Rooted Teeth: preparation and obturation of 6 root canals.
  - Multi-Rooted Teeth: preparation and obturation of root canals in 6 teeth.
- **Fixed Prosthodontics:**
  - Crowns: tooth preparation and fabrication of at least 30 full veneer and ceramic crowns.
  - Bridges: tooth preparation and fabrication of at least 3 simple 3-unit bridge.
- **Removable Prosthodontics:**
  - Full Dentures: laboratory fabrication of 1 full denture.
  - Partial Dentures: laboratory fabrication of 1 partial denture which is a metal-based partial denture.

- Partial Dentures: laboratory fabrication of 1 partial denture which is resin based.

➢ **Oral Radiology:**

- Taking one full mouth intra-oral radiographs.

➢ **Oral Pathology:**

- Attending and participating in Oral Pathology Labs.
- Drawing the diagrams of the lab manual.

Clinical Requirements:

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

➢ **Conservative Dentistry**

- Ten class I amalgam and composite.
- Eight class II amalgam and composite.
- Three class III composite.
- Three class IV composite.
- Three class V composite.
- Two indirect restorations and one bleaching case.

➢ **Endodontics:**

- Twenty-five root canal fillings of anterior and posterior teeth.

➢ **Fixed Prosthodontics**

- Three restoration of Endodonticaly treated teeth.
- Bridges: Two 3-unit bridges.

➢ **Removable Prosthodontics:**

- Two full complete dentures.
- Two permanent partial dentures.
- Two temporary partial dentures.
- One implant case.
- One advanced prosthetic case.

➢ **Oral Surgery:**

- Completed 20 extractions and 2 cases of removal of remaining roots.
- Assisted in two minor oral surgery procedures in 4th year and performed at least two minor oral surgery procedures in the 5th year.

➢ **Oral Radiology:**

- Taking two panoramic radiographs.
- Written at least 2 reports on radiographic examination of 2 cases.

➢ **Oral Medicine and Periodontology:**

- Observe two major periodontal treatment, as well as 12 sextants polishing and root planning.
- Attending and participating in oral diagnosis clinic.

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- Full diagnostic chart for six patients plus one case presentations.

➢ **Paediatric and Preventive Dentistry:**

- Apply pit and fissure sealants on extracted permanent molars.
- Apply Fluoride varnish clinically to children
- Preparation of different cavity designs on primary molars
- Conduct pulpotomy on primary teeth
- Estimate Dental Age through Models and X-Rays
- Analyse Dietary habits of children
- Provide children with chemical and mechanical oral hygiene measures.

➢ **Dental Public health**

- Investigate the morphological variations between the primary and the permanent teeth through submission of Diagnostic charts.
- Calculation of dental indices.
- Evaluate the population's needs and demands through surveys.
- Formulate age appropriate dental health educational programmes.
- Assess different epidemiological and sampling cases.

➢ **Orthodontics:**

- Diagnosis and case presentation of 2 cases and suggested treatment plan.

Programme Structure

Level One

Semester One

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
ANATP01	General and Applied Clinical Anatomy I	2	2	3
PHYSP01	H Physiology I	2	2	3
BIOCP01	Biochemistry I	1	2	2
GHISP01	G Histology I	1	2	2
MICRP01	Microbiology I	1	2	2
HDENP01	Human Dentition I	2	2	3
ENG P01	English Language I	0	4	2
	Elective	2	-	2

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		11	16	19

Semester Two

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
ANATP02	General and Applied Clinical Anatomy II	2	2	3
PHYSP02	H Physiology II	2	2	3
BIOCP02	Biochemistry II	1	2	2
GHISP02	G Histology II	1	2	2
MICRP02	Microbiology II	1	2	2
HDENP02	Human Dentition II	2	2	3
ENG P02	English Language II	0	4	2
	Elective	2	-	2
		11	16	19

Level Two

Semester One

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSC01	Conservative Dent Pre-Clinical I	2	2	3
FPROC01	Fixed Prosth Pre-Clinical I	2	2	3
RPROC01	Rem Prosth Pre-Clinical I	2	2	3
DMATC01	Bio physics & Dental Materials I	2	2	3
OBIOC01	Oral Biology I	2	2	3
GPATC01	G Pathology I	1	2	2
PHARC01	Pharmacology I	1	2	2
		12	14	19

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Semester Two

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSC02	Conservative Dent Pre-Clinical II	2	2	3
FPROC02	Fixed Prosth Pre-Clinical II	2	2	3
RPROC02	Rem Prosth Pre-Clinical II	2	2	3
DMATC02	Bio physics & Dental Materials II	2	2	3
OBIOC02	Oral Biology II	2	2	3
GPATC02	G Pathology II	1	2	2
APPDC02	Advanced Pharmacotherapy Practice in Dentistry	1	2	2
		12	14	19

Third Year

Semester One

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSC03	Conservative Dent Pre-Clinical III	2	2	3
FPROC03	Fixed Prosth Pre-Clinical III	2	2	3
RPROC03	Rem Prosth Pre-Clinical III	2	2	3
OPATC03	Oral Pathology I	2	2	3
ENDOC03	Endodontic Pre-Clinical I	1	2	2
ORADC03	Oral Radiology Preclinical I	1	2	2
GMEDC03	G Medicine, Dermatology& Venereal Disease	2	0	2
INFCC03	Infection Control in Dental Practice	1	0	1
		13	12	19

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Semester Two

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSC04	Conservative Dent Pre-Clinical IV	2	2	3
FPROC04	Fixed Prosth Pre-Clinical IV	2	2	3
RPROC04	Rem Prosth Pre-Clinical IV	2	2	3
OPATC04	Oral Pathology II	2	2	3
ENDOC04	Endodontic Preclinical II	1	2	2
ORADC04	Oral Radiology Preclinical II	1	2	2
GSURC04	G Surgery Ophthalmology & ENT	2	0	2
DPETC04	Dental Professional Ethics	1	0	1
		13	12	19

Fourth year

Semester One

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSI01	Conservative Dent Clinical I	1	2	2
FPROI01	Fixed Prosth Clinical I	1	2	2
RPROI01	Rem Prosth Clinical I	2	2	3
ORTHI01	Orthodontics I	2	2	3
ENDOI01	Endodontic Clinical I	1	2	2
OSURI01	Oral Surgery & Anaesthesia I	2	2	3
OMEDI01	Oral Medicine & Diagnosis I	3	2	4
		12	14	19



Semester Two

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSI02	Conservative Dent Clinical II	1	2	2
FPROI02	Fixed Prosth Clinical II	1	2	2
RPROI02	Rem Prosth Clinical II	2	2	3
ORTHI02	Orthodontics II	2	2	3
OSURI02	Oral Surgery & Anaesthesia II	2	2	3
OMEDI02	Oral Medicine & Diagnosis II	2	2	3
PUBHI02	Dental Public Health	1	2	2
GSHCI02	Geriatrics & Special Health Care	1	0	1
		12	14	19

Fifth year

Semester One

Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSH01	Conservative Dent Clinical III	1	2	2
FPROH01	Fixed Prosth Clinical III	1	2	2
RPROH01	Advanced Prosth & Implantology	1	2	2
PAPDH01	Paediatric & Preventive Dentistry I	2	2	3
OSURH01	Oral Surgery & Anaesthesia III	2	2	3
PRIOH01	Periodontology I	2	2	3
ENDOH01	Endodontic Clinical II	1	2	2
ORADH01	Oral Radiology Clinical I	1	2	2
		11	16	19

Semester Two

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Course Code	Course Name	Lect (hrs)	Pract (hrs)	Credit (hrs)
CONSH02	Conservative Dent Clinical IV	1	2	2
FPROH02	Fixed Prosth Clinical IV	1	2	2
RPROH02	Maxillofacial Prosth	1	2	2
PAPDH02	Paediatric & Preventive Dentistry II	2	2	3
OSURH02	Oral Surgery & Anaesthesia IV	2	2	3
PRIOH02	Periodontology II	2	2	3
ENDOH02	Endodontic Clinical III	1	2	2
COCDH02	Comprehensive Clinical Dentistry	1	2	2
		11	16	19

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.

Module specifications:

General and Applied Clinical Anatomy I

Semester One

Module Code: ANATP01	**Title:** General and Applied Clinical Anatomy I
Credit hours: 3	
Prerequisite modules: None	
Reassessment: Re-exam in August	
Internal examiner: Prof. Magdy Fouad	
Academic Year taught: Semester One 1st Year	
Key words: Anatomy, Bones, Muscles, Nerves, Blood Vessels	
Date of latest revision: September 2021	

Aims:

This module is divided into three parts: 1) Introduction to anatomy, in which the student will learn about anatomical positions & plans, skin, fascia, cartilage, bones, muscles, joints as well as different body systems as nervous system, cardiovascular system, respiratory system etc... 2) Detailed anatomy of the head and neck. 3) Applied surgical anatomy related to studied topics in general anatomy aiming to integrate academic and clinical knowledge.

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Intended Learning outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand basic anatomic structure of the human body.
- Understand the detailed anatomy of the head and neck.
- Recognize the structure of the skull, the temporomandibular joint, the muscles, vessels, nerves, lymphatics and glands of the head and neck.

Subject-specific cognitive skills

- Identify different structure of the head and neck.

Subject-specific practical skills

- Prepare students to understand surgical techniques and skills.

Key/transferable skills

- Discuss different body structures and correlate anatomical structure to physiological functions of different body parts.

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Content:

Topics
Basis of Anatomy:
-Anatomical positions and planes
-Skin & fascia
-Cartilage
-Bones
-Joints
-Muscles
-Cardiovascular system
-Respiratory system
-Digestive system
-Urinary system
-Genital system
-Lymphatic system
-Nervous system
-Endocrine system
Head and Neck:
-Skull
-Cervical vertebrae
-Scalp
-Face
-Parotid gland
-Muscles of mastication
-Temporomandibular joint
-Maxillary artery and pterygoid plexus of veins
-Maxillary nerve
-Mandibular nerve
-Cranial cavity and cavernous sinus
-Applied surgical anatomy related to studied anatomical topics

Methods of Learning & Teaching

- Lectures to explain underlying principles
- Tutorials to help in understanding these principles
- Practical labs to visualize dissected and plastinated head and neck specimens as well as head and neck models

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading list

Richard, L. Drake; Wayne Vogl; Adam W.M. Mitchell	Latest edition	Gray's Anatomy for Students	Churchill Livingstone
Johannes W. Rohen, Chihiro Yokochi, Elke	Latest edition	Color atlas of anatomy: photographic study of the human body	Lippincott Williams & Wilkins
Richars S. Snell	Latest edition	Clinical Anatomy	Lippincott Williams & Wilkins
Myron R. Tucker , Edward Ellis III	Latest edition	Contemporary Oral And Maxillofacial Surgery,	Elsevier

General and Applied Clinical Anatomy II

Semester Two

Module Code: ANATP02	**Title**: General and Applied Clinical Anatomy II
Credit hours: 3	
Prerequisite modules: None	
Reassessment: Re-exam in August	
Internal examiner: Prof. Magdy Fouad	
Academic Year taught: Semester Two 1st Year	
Key words: Anatomy, Bones, Muscles, Nerves, Blood Vessels	
Date of latest revision: September 2021	

Aims:

This module is divided into three parts: 1) Introduction to anatomy, in which the student will learn about anatomical positions & plans, skin, fascia, cartilage, bones, muscles, joints as well as different body systems as nervous system cardiovascular system, respiratory system etc... 2) Detailed anatomy of the head and neck. 3) Applied surgical anatomy related to studied topics in general anatomy aiming to integrate academic and clinical knowledge.

Intended Learning outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand basic anatomic structure of the human body.
- Understand the detailed anatomy of the head and neck.
- Recognize the structure of the skull, the temporomandibular joint, the muscles, vessels, nerves, lymphatics and glands of the head and neck.

Subject-specific cognitive skills

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- Identify different structure of the head and neck.

Subject-specific practical skills

- Prepare students to understand surgical techniques and skills.

Key/transferable skills

- Discuss different body structures and correlate anatomical structure to physiological functions of different body parts.

Contents:

Topics
Head and Neck:
-Orbit
-Ear
-Nose
-Paranasal air sinus
-Fascia of the neck
-Sternomastoid muscle and triangles of the neck
-Digastric, mylohyoid and geniohyoid muscles
-Submandibular region, submandibular & sublingual salivary glands
-Carotid triangle, carotid arteries and jugular veins
-Muscular triangle and thyroid gland
-Nerves of the head and neck
-Oral cavity and tongue
-Palate
-Pharynx
-Larynx
-Lymphatic drainage of the head and neck
-Applied surgical anatomy related to studied anatomical topics

Methods of Learning & Teaching

- Lectures to explain underlying principles
- Tutorials to help in understanding these principles
- Practical and dissecting labs to visualize dissected and plastinated head and neck specimens as well as head and neck models

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading list

Richard, L. Drake; Wayne Vogl; Adam W.M. Mitchell	Latest edition	Gray's Anatomy for Students	Churchill Livingstone
Johannes W. Rohen, Chihiro Yokochi, Elke	Latest edition	Color atlas of anatomy: photographic study of the human body	Lippincott Williams & Wilkins
Richars S. Snell	Latest edition	Clinical Anatomy	Lippincott Williams & Wilkins
Myron R. Tucker , Edward Ellis III	Latest edition	Contemporary Oral And Maxillofacial Surgery,	Elsevier

Human Physiology I

Semester One

Module Code: PHYSP01	**Title:** H Physiology I
Credits: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ibrahim Yehia	
Academic Year taught: Semester One 1st Year	
Key words: Physiology, Circulation, Respiration, Digestion	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basic physiological functions of the human body.
- Have a deep understanding of the different human body systems and how they interact.

Subject-specific cognitive skills

- Conduct simple physiology experiments.

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Subject-specific practical skills

- Appreciate the relationship of physiological phenomena with the oral cavity.

Key/transferable skills

- Apply this knowledge to simple clinical procedures such as recording blood pressure, recognizing normal heart sounds and reading a normal ECG.

Content

Topics
Body Fluids and physiology of blood
The autonomic nervous system
Physiology of nerves.
Physiology of muscles.
.Immunity

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Arthur C. Guyton, John E. Hall	Latest Edition	Textbook of Medical Physiology, 11th Ed.	W.B. Saunders
Hema Pispati	Latest Edition	Concise Textbook of Physiology for Dental Students	OUP India

Human Physiology II

Semester Two

Module Code: PHYSP02	**Title:** H Physiology II
Credits: 3	
Prerequisite modules: None	

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Reassessment: *Re-exam in August*
Internal examiner: Professor Ibrahim Yehia
Academic Year taught: Semester Two 1st Year
Key words: Physiology, Circulation, Respiration, Digestion
Date of latest revision: September 2021

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basic physiological functions of the human body.
- Have a deep understanding of the different human body systems and how they interact.

Subject-specific cognitive skills

- Conduct simple physiology experiments.

Subject-specific practical skills

- Appreciate the relationship of physiological phenomena with the oral cavity.

Key/transferable skills

- Apply this knowledge to simple clinical procedures such as recording blood pressure, recognizing normal heart sounds and reading a normal ECG.

Content

Topics
Cardiovascular system
Gastrointestinal system. .(mastication, salivary secretion, swallowing and vomiting)
Neurophysiology (somatic sensation, pain and an outline of motor functions.)
Respiration
Endocrinology.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

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Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Arthur C. Guyton, John E. Hall	Latest Edition	Textbook of Medical Physiology, 11th Ed.	W.B. Saunders
Hema Pispati	Latest Edition	Concise Textbook of Physiology for Dental Students	OUP India

Biochemistry I

Semester One

Module Code: BIOCP01	**Title:** Biochemistry I
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ibrahim Yehia	
Academic Year taught: Semester One 1st Year	
Key words: Inorganic, Organic, Physical, Biochemistry, Metabolism, Carbohydrates, Proteins, Lipids	
Date of latest revision: September 2021	

Aims

The module focuses on introducing the student to the basics of chemistry and the fundamentals of medical biochemistry. Emphasis will be placed on understanding principles of chemistry including acid, basis and solutions. The course aims to give students a basic knowledge of biochemistry including chemistry of biological macromorlecules, enzymes and vitamins,

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basics of chemistry.
- Understand the structure, properties, and metabolic pathways of carbohydrates, lipid, and proteins of biological importance and determine the site of each.

Subject-specific cognitive skills

- Use the sources of biomedical information to remain oriented with advances in knowledge and practice.

Subject-specific practical skills

- Perform some basic chemical tests to identify unknown sugar or protein solutions
- Identify the physical and chemical characters of normal urine under different physiological conditions.

Key/transferable skills

- Perform chemical tests to detect abnormal constituents of urine.
- Interpret the observations of chemical tests to identify unknown sugar or protein solutions.

Content

Topics
General Chemistry: • Acid base buffers • Solutions
Carbohydrate chemistry
Lipid chemistry
Amino acids, peptides & protein chemistry
Nucleic acid chemistry
Enzymes
Vitamins

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%

Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stryter, Lubert	Latest Edition	Biochemistry	Freeman and Co
Pamela C Champe; Richard A Harvey; Denise R Ferrier	Latest Edition	Lippincott`s Illustrated Reviews: Biochemistry	Lippincott`s Williams & Wilkins

Biochemistry II

Semester Two

Module Code: BIOCP02	**Title:** Biochemistry II
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ibrahim Yehia	
Academic Year taught: Semester Two 1st Year	
Key words: Inorganic, Organic, Physical, Biochemistry, Metabolism, Carbohydrates, Proteins, Lipids	
Date of latest revision: September 2021	

Aims

The module focuses on introducing the student to the basics g energetic and metabolic pathways and diseases related to biochemical disoreders.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the structure, properties, and metabolic pathways of carbohydrates, lipid, and proteins of biological importance and determine the site of each.
- Understand the regulatory mechanisms of these pathways and point out the related metabolic disorders and their clinical prints on biochemical and clinical basis.
- Describe the components of body fluids.

Subject-specific cognitive skills

- Use the sources of biomedical information to remain oriented with advances in

knowledge and practice.

Subject-specific practical skills

- Perform some basic chemical tests to identify unknown sugar or protein solutions
- Identify the physical and chemical characters of normal urine under different physiological conditions.

Key/transferable skills

- Perform chemical tests to detect abnormal constituents of urine.
- Interpret the observations of chemical tests to identify unknown sugar or protein solutions.

Content

Topics
Bioenergetics
Carbohydrate metabolism
Lipid metabolism
Amino acids & protein metabolism
Minerals
Saliva
Composition of human teeth

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Stryter, Lubert	Latest Edition	Biochemistry	Freeman and Co
Pamela C Champe; Richard A Harvey; Denise R Ferrier	Latest Edition	Lippincott`s Illustrated Reviews: Biochemistry	Lippincott`s Williams & Wilkins

General Histology I

Semester One

Module Code: GHISP01	**Title:** General Histology I
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam*	
Internal examiner: Professor Ayman Ghallab	
Academic Year taught: Semester One 1st Year	
Key words: Histology, Cell Biology, Epithelium, Connective Tissue, Muscle Tissue, Nervous Tissue, Light Microscope, Electron Microscope	
Date of latest revision: September 2021	

Aims

Histology is the study of the normal detailed structure of the body as a result of microscopic examination. Dental students must master the subject of Histology because only by doing so they will be able to understand how different tissues function. It is important to emphasize that what they are learning in Histology will have significant applications to their later clinical work. Histology is a fascinating subject because it has close relationship with other disciplines. Histology links other broad basic science subjects as Physiology, Gross Anatomy and Biochemistry; with more applied subjects such as Hematology, Pathology and Immunology. Thus, it constitutes a useful middle ground from which an integrated understanding of tissue structure and function will emerge. Histology is basic to the understanding of cell and tissue diseases. It is impossible to study the abnormal before the normal is known.

So, the main objective of this course is to define and understand the functional structure of cells and the basic tissues of the human body and its clinical significance and application, and to inform the students about the different histological tools and techniques.

Intended Learning Outcomes (ILOs)

"The Department has intended learning outcomes for its programmes that are mission-related, reflect the use of relevant external reference standards, and are at an appropriate level."

Knowledge and understanding

I. Understanding (by the end of the semester the student should be able to understand:

- How the body is organized.
- The ultrastructure of the cell
- The general characters and classifications of epithelial tissue.
- The general characters and classifications of connective tissue.
- That cartilage, bone and blood are special type of connective tissue.
- The clinical significance of each element of the blood
- The main difference between different types of muscle
- The concept of the neuron as the structural and functional unit of nervous tissue

II. Knowledge (by the end of the semester the student should gain the following knowledge)

- Know major types of microscopes and stains
- Know the main functional structure of the different components of the cell
- Know the main functions and sites for each type of epithelium.
- Know the main functional structure and sites for each type of connective tissue
- Know the main functional structure and sites for each type of cartilage and bones
- Know the different counts of blood elements
- Know the functional structure of skeletal muscles
- Know the histological structure and types of neurons



Subject-specific cognitive skills

- Learn skills of using light microscope
- Learn skills of identifying and drawing the cell components at LM & EM levels

- Learn skills of identifying each type of epithelium at LM levels
- Learn skills of identifying section in umbilical cord (mucous C.T.) and adipose connective tissue
- Learn skills of identifying sections in hyaline and elastic cartilage at LM level
- Learn skills of identifying sections in compact bone and spongy at LM level
- Learn skills of identifying leucocytes in blood film.
- Learn skills of identifying sections in skeletal muscles
- Learn skills of identifying sections in nerve trunk

Subject-specific practical skills

- Learn skills of drawing colored diagrams of each type of epithelium at LM level
- Learn skills of drawing colored diagram of adipose connective tissues
- learn skills of drawing colored diagram of hyaline cartilage at LM
- Learn skills of drawing colored diagrams in sections of compact bone at LM level
- Learn skills of drawing colored diagrams in sections of skeletal muscles
- Learn skills of drawing colored diagrams of sections in nerve trunk.

Key/transferable skills

- Define a tissue and classify the basic four tissues of the body.
- Name common microscopes
- Enumerate common stains used in histology
- Define the cell and list its principal parts
- Describe structure and function of the nucleus
- Describe structure and function of the membranous organelles in cytoplasm
- Describe the structure and function of the non-membranous organelles in cytoplasm and its inclusions
- Describe the general features of the epithelium
- List the structure, location and function of simple epithelium
- List the structure, location and function of Stratified epithelium
- Define a gland and distinguish between endocrine and exocrine glands
- Describe the general features of connective tissue
- Describe the structure and functions of cells, fibers and ground substances that compose connective tissue
- Describe the components of the cartilage

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- List the types of cartilage, structure, function and location of each
- Describe the components of the bone
- List types of bone, structure, function and location of each
- Define the functions and physical characters of the various components of blood
- Compare the origin, histology and fuctions of various elements of blood
- Identify some clinical applications related to the number of blood elements
- Contrast the three types of muscle tissue with regard to structure, location, and modes of control

- Describe the structural features of the neuron as functional and structural unit of nervous tissue
- Describe the classifications of neurons

Content

Topics
Introduction and basics of Micro techniques
The human Cell
Epithelial Tissue
Connective tissue (including, Connective tissue proper, Cartilage, Bone and The Blood)
Muscular Tissue
Nervous Tissue

Methods of Learning & Teaching

Teaching/Learning Strategies

There are effective teaching and learning, informed by a shared, strategic view of learning and the selection of appropriate teaching methods; and due attention is paid to the encouragement of independent learning.

Teaching and learning opportunities:

Lecture room

Seats for 100 students, well illumination and ventilation, White board (Classic), Data show facilities and PC connected to the internet, audio-visual system

Methods of teaching

Power point presentations, Animations, PDF files, White board classic explanations

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Discussions, seminars critical reviewing, interaction, Students search and presentations and exhibition

e-learning via "Moodle" system. On line quiz every week to cover all subjects.

Laboratory for practical classes,

Benches with electric supply for 20-30 students (not more), 30 students – research binocular microscopes, Video screen or TV system for explanation to many students. 30 complete set of histology sections slides, and EM photographs.

Methods of teaching

Microscopic examination, drawing of colored diagrams.

Discussions, seminars critical reviewing, interaction,

Students search and presentations and exhibition

E-learning. On-line quiz every week to cover all subjects.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Ghallab, A.M.	2013	Basics of clinical and functional Histology for paramedical Students.	El-Meleagy Press Giza, Egypt
Young, B. and Heath, J.W.	2000 4th edition	Wheater's Functional Histology. A Text and Colour Atlas.	Churchill Livingstone. London
Ghallab, A.M.	2004 5th edition	Introduction to Functional and Clinical Histology. Text and Atlas. Part I	El-Meleagy Press Giza, Egypt

General Histology II

Semester Two

Module Code: GHISP02	**Title:** General Histology II

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Credits: 2
Prerequisite modules: None
Reassessment: *Re-exam in August*
Internal examiner: Professor Ayman Ghallab
Academic Year taught: Semester Two 1st Year
Key words: Histology, Vascular System, Lymphatic System, Skin, Oral Cavity, Salivary Glands, Pancreas, Liver, Endocrine Glands.
Date of latest revision: September 2021

Aims

Histology is the study of the normal detailed structure of the body as a result of microscopic examination. Dental students must master the subject of Histology because only by doing so they will be able to understand how different tissues function. It is important to emphasize that what they are learning in Histology will have significant applications to their later clinical work.

Histology is a fascinating subject because it has close relationship with other disciplines. Histology links other broad basic science subjects as Physiology, Gross Anatomy and Biochemistry; with more applied subjects such as Hematology, Pathology and Immunology. Thus, it constitutes a useful middle ground from which an integrated understanding of tissue structure and function will emerge. Histology is basic to the understanding of cell and tissue diseases. It is impossible to study the abnormal before the normal is known.

So, the main objective of this course is to define and understand the functional structure of some organs and systems of the human body and its clinical significance and application.

Intended Learning Outcomes (ILOs)

"The Department has intended learning outcomes for its programmes that are mission-related, reflect the use of relevant external reference standards, and are at an appropriate level."

Knowledge and understanding

I. Understanding (by the end of the semester the student should be able to understand:

- The general structure of blood vessels.
- The general similarity and differences between different lymphatic organs
- How widely distributed is the reticuloendothelial system.

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- The general structure of skin.
- The epithelial lining and covering of the mouth
- General distribution of salivary gland
- The difference between pancreas and salivary glands
- General architecture of liver
- The super control of Pituitary gland
- The concept of the endocrine secretions

II. Knowledge (by the end of the semester the student should gain the following knowledge)

- The difference between sections of blood vessels
- The difference between sections in lymph node, spleen and tonsils.
- The different types of cells of the reticuloendothelial system.
- The difference between sections in thick and thin skin.
- The functional structure of lip and tongue.
- Functional structure of salivary gland.
- Functional ultrastructure of pancreas.
- Functional structure of hepatocytes
- The functional structure of Pituitary gland
- The histological structure of suprarenal and thyroid glands

Subject-specific cognitive skills

- Learn skills of identifying sections in aorta, artery and vein.
- Learn skills of identifying sections in lymphatic organs
- Learn skills of identifying sections in thick skin
- Learn skills of identifying sections of lip and tongue and different types of papillae
- Learn skills of identifying sections in pancreas
- Learn skills of identifying sections in liver
- Learn skills of identifying sections in pituitary gland
- Learn skills of identifying sections in thyroid and parathyroid glands

Subject-specific practical skills

- Learn skills of drawing sections in aorta, artery and vein.
- Learn skills of drawing sections in lymphatic organs
- Learn skills of drawing sections in thick skin.
- Learn skills of drawing colored diagrams of lip and tongue and different types

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of papillae

- Learn skills of drawing sections in pancreas
- Learn skills of drawing sections in liver
- Learn skills of drawing of Pituitary gland
- Learn skills of drawing sections in thyroid and parathyroid glands

Key/transferable skills

- Contrast the structure and function of various types of blood vessels
- Describe the general components of lymphatic system and list its function
- Describe the structure and function of lymph nodes
- Describe the structure and functions of spleen and tonsils
- Compare between the major lymphatic organs
- . Describe the histology and the functions of the skin
- Compare between the structure of thick skin and thin skin
- List the structures located in the mouth cavity and their structural and functional significance.
- Define the different types of tongue papillae
- Describe the general features of Salivary glands, acini and duct system
- Describe the components of parotid and submandibular and lingual salivary glands
- List the main histological differences between salivary glands
- Describe the components of pancreas
- Compare between different types of digestive glands
- Define the lobulations of the liver
- Describe the ultrastructre of hepatocyte
- Describe the different components of Pituitary gland
- List the hormones secreted from Pituitary gland
- Describe the structural features of the supra renal gland
- Describe the functional structure of thyroid and parathyroid glands

Content

Topics
Vascular system
Lymphatic system
Reticuloendothelial system
Skin

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Digestive system I (Oral Cavity)
Digestive system II (Salivary Glands, Pancreas, Liver)
Endocrine Glands (Pituitary, Suprarenal, Thyroid, Parathyroid)

Methods of Learning &Teaching

Teaching/Learning Strategies

There are effective teaching and learning, informed by a shared, strategic view of learning and the selection of appropriate teaching methods; and due attention is paid to the encouragement of independent learning.

Teaching and learning opportunities:

Lecture room

Seats for 100 students, well illumination and ventilation, White board (Classic), Data show facilities and PC connected to the internet, audio-visual system

Methods of teaching

Power point presentations, Animations, PDF files, White board classic explanations Discussions, seminars critical reviewing, interaction, Students search and presentations and exhibition

e-learning via "Moodle" system. On line quiz every week to cover all subjects

Laboratory for practical classes,

Benches with electric supply for 20-30 students (not more), 30 student – research binocular microscopes, Video screen or TV system for explanation to many students. 30 complete set of histology sections slides, and EM photographs.

Methods of teaching

Microscopic examination, drawing of colored diagrams.

Discussions, seminars critical reviewing, interaction,

Students search and presentations and exhibition

E-learning. On-line quiz every week to cover all subjects.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Ghallab, A.M.	2013	Basics of clinical and functional Histology for paramedical Students.	El-Meleagy Press Giza, Egypt
Young, B. and Heath, J.W.	2000 4th edition	Wheater's Functional Histology. A Text and Colour Atlas.	Churchill Livingstone. London
Ghallab, A.M.	2004 5th edition	Introduction to Functional and Clinical Histology. Text and Atlas. Part II.	El-Meleagy Press Giza, Egypt

Microbiology I

Semester One

Module Code: MICRP01	**Title:** Microbiology I
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Aymen Samir Yassin	
Academic Year taught: Semester One 1st Year	
Key words: Bacteria, Viruses, Fungi	
Date of latest revision: September 2021	

Aims

The module enables the student to understand how microorganisms 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 classification and differentiation, structure, function, growth, metabolism and genetics of microorganism and their role in the environment and in causing disease.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe and name microorganisms, especially those of the oral cavity.
- Differentiate between the different forms of microorganisms (bacteria, virus, fungi).

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Subject-specific cognitive skills

- Understand the basics of microbial classification.
- Understand the basics of microbial structure and function.

Subject-specific practical skills

- Identify microbes by proper staining techniques.
- Differentiate between different types of bacteria (Gram positive and Gram negative).

Key/transferable skills

- Classify different types of microorganism.
- Identify microorganism microscopically using different staining techniques

Content

Topics
Brief History of Microbiology.
Basic microbial classification.
Microbial structure.
Microbial growth.
Microbial metabolism.
Microbial genetics.
Basic structure and characters and life of Virus, Fungi, Algae, protozoa and special forms of bacteria.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding and elaborating these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Philip Marsh, Michael V Martin	Latest Edition	Oral Microbiology, 4th ed	Butterworth-Heinemann
Lakshman P. Samaranayake	Latest Edition	Essential Microbiology for Dentistry	Churchill Livingstone
J. Bagg, T.W MacFarland, I.R. Poxton and A. J. Smith	Latest Edition	Essential Microbiology for Dental Students	Oxford

Microbiology II

Semester Two

Module Code: MICRP02	**Title:** Microbiology II
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Aymen Samir Yassin	
Academic Year taught: Semester Two 1st Year	
Key words: Bacteria, Viruses, Fungi	
Date of latest revision: September 2021	

Aims

The module enables the student to understand how microorganisms live and infect humans, and how humans respond to these infections in order to preserve health. This second part presents host defences and the molecular basis of immunity and serological reactions. In addition to the pathogenesis and virulence factors associates with microorganisms as well as the clinical bases of infectious diseases particularly those of the oral cavity (bacterial, viral and fungal). Principles of infection control procedures will be covered.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe the different virulence factors associated with microbes.
- Understand the mechanism of infectious disease pathogenesis and transmission.
- Describe the basics of diseases affecting the oral cavity (bacterial, fungal and viral) and the basics of infection control (use of antiseptics, disinfectants and

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antibiotics).

Subject-specific cognitive skills

- Understand the defence mechanism against infectious microorganisms.
- Understand the basics different microbial diseases in the oral cavity.

Subject-specific practical skills

- Isolate pure colonies of bacteria on culture media.
- Test the sensitivity of bacteria to different antibiotics and how to determine the minimum inhibitory and bactericidal concentrations.

Key/transferable skills

- Practice isolation of mixed bacterial cultures.
- Test the proper antimicrobial agents for infectious diseases.

Content

Topics
Mechanisms of Microbial Pathogenesis.
Microbial virulence factors.
Principles of Serology and identification of microorganisms.
Role of microbes in dental plaque formation.
Caries formation and prevention.
Microbial Periodontal diseases.
Bacterial diseases of the oral cavity.
Fungal and viral diseases of the oral cavity.
Principles of Antiseptics, disinfectants and antibiotics.
Infection Control in the dentist clinic and hospitals.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding and elaborating these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Philip Marsh, Michael V Martin	Latest Edition	Oral Microbiology, 4th ed	Butterworth-Heinemann
Lakshman P. Samaranayake	Latest Edition	Essential Microbiology for Dentistry	Churchill Livingstone
J. Bagg, T.W MacFarland, I.R. Poxton and A. J. Smith	Latest Edition	Essential Microbiology for Dental Students	Oxford

Human Dentition I

Semester One

Module Code: HDENP01	**Title:** Human Dentition I
Credits: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Reham Magdy- Dr. Mohamed Shamel	
Academic Year taught: Semester One 1st Year	
Key words: Dentition, Teeth Functions , Cusps, Cingulum, Grooves, Anterior Teeth, Premolars	
Date of latest revision: September 2021	

Aims

-To promote basic information about the human dentitions, general functions of teeth, different teeth coding systems and dental terminology.

-To provide dental student with necessary advanced knowledge about Internal and external morphology of permanent Anterior teeth and premolars.

- To expand the dental students hand skills to enabling him to perform most of waxing up tasks in succeeding years.

- promoting professional as well as communication attitude.

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Content

Topics
Introduction to Human dentition and dental Anatomy.
Elevations and Depressions Anatomical features.
Morphological description of permanent Anterior teeth.
Morphological description of Premolars .
Mandible at different ages.
The Geometric Concept of Crown Outline

Learning Outcomes:

Upon completing this course, students will be able to:

Knowledge and understanding:

- Define different basic dental terminology.
- Describe the different coding systems for teeth identification.
- List the chronological date of each tooth.
- Describe the Permanent Anterior teeth external and internal morphology
- Describe the internal and external morphology of premolars.
- List the characteristic features of mandible at different ages.
- Define the teeth geometrical outline form and their specific significance.

Intellectual Skills:

- Deduce the tooth code with the different coding systems.
- Compare between the permanent anterior teeth.
- Compare between permanent premolars.
- Estimate the average age of a jaw through knowing teeth chronology.

Subject-specific practical skills:

- Fully identify the human Permanent anterior teeth and the clinical applications.
- Fully identify the human premolars and the clinical applications.
- Draw and carving of incisors, canines and premolars.

Subject-specific cognitive skills

- Enhance the manual dexterity through knowledge and practice activities to perform most of waxing up tasks in succeeding years.
- The course serves to provide the Year 1 students with a firm base for other academic as well as clinical courses.

Transferable skills

- Communicate effectively with colleagues and staff members.
- Demonstrate appropriate professional attitude and behaviour in different situations.

Methods of Learning & Teaching

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- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.
- Demonstration videos for carving and drawings

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Major M. Ash; Stanley J. Nelson	Latest Edition	Wheeler's Dental Anatomy, Physiology and Occlusion	W.B Saunders Co.
Rickne C. Scheid, Julian B. Woelfel	2002	Dental Anatomy: Its Relevance to Dentistry	Lippincott Williams & Wilkins

The course leader will distribute handouts at the beginning of the semester that cover the whole curriculum of the course.

Human Dentition II

Semester Two

Module Code: HDENP02	**Title:** Human Dentition II
Credits: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Reham Magdy- Dr. Mohamed Shamel	
Academic Year taught: Semester Two 1st Year	
Key words: Dentition, Elevations , Depressions , Molars , Deciduous, Occlusion	
Date of latest revision: September 2021	

Aims

- To provide dental student with necessary advanced knowledge about dental external and internal morphology of permanent molars and deciduous teeth.
- To expand the knowledge of year one students about the factors that support and protect teeth and surrounding oral tissues.

- To promote basic information about Occlusion.
- To expand the dental students hand skills through drawing and carving posterior teeth morphology.
- The course serves to provide the year one students with a firm base for other academic as well as clinical course, promoting professional as well as communication attitude.

Content

Topics
Morphological description of permanent molars .
Morphological description of anterior deciduous teeth. Morphological description of posterior deciduous teeth.
Physiologic tooth form protecting the periodontium
Compensating curvatures of the dental arches & the arrangement of Individual teeth Basic introduction for Occlusion

Learning Outcomes:

Upon completing this course, students will be able to:

Knowledge and understanding:

List the chronological date of each posterior tooth.

- Describe the Permanent molar external and internal morphology
- List the differences between Deciduous and permanent teeth.
- Describe the Deciduous teeth morphology.
- Define the Physiologic factors related to teeth function and Occlusion.

Intellectual Skills:

Upon completing this course, students will be able to:

- Differentiate between Deciduous and Permanent human teeth.
- Compare between the permanent molars.
- Compare between the teeth curves.
- Select significance of the factors that protect periodontium.
- Identify the occlusion relation between upper and lower teeth.

Subject-specific practical skills:

Upon completing this course, students will be able to:

- Identify Deciduous and Permanent human posterior teeth and the clinical applications.
- Draw and Curve the morphological anatomical features of the premolars and molars

Transferable skills

- Enhance the manual dexterity through knowledge and practice activities to perform most of waxing up tasks in succeeding years.
- The course serves to provide the Year 1 students with a firm base for other academic as well as clinical courses.

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- Communicate effectively with colleagues and staff members.
- Demonstrate appropriate professional attitude and behaviour in different situations.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.
- Demonstration videos for carving and drawings.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
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Rickne C. Scheid, Julian B. Woelfel	2002	Dental Anatomy: Its Relevance to Dentistry	Lippincott Williams & Wilkins

The course leader will distribute handouts at the beginning of the semester that cover the whole curriculum of the course.

Conservative Dentistry Pre-Clinical I

Semester One

Module Code: CONSC01	**Title:** Conservative Dentistry Pre-Clinical I
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester One 2nd Year	
Key words: Caries, Cavity, Filling, Restoration	
Date of latest revision: September 2021	

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Aims

- This is a preclinical course designed to introduce the student to the science of operative dentistry.
- Provide the student with the theoretical expertise in the identification and diagnosis of carious and non-carious lesions together with the different cavity classifications.
- Provide the students with the basic knowledge of the fundamentals and the principles of cavity preparation and instrumentation.
- Introduce the concept of cavity basing and lining.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Define operative dentistry and list its objectives and scope.
- Distinguish the different cavity classifications and nomenclature.
- Identify principles of cavity preparation according to evidence based dentistry.
- Differentiate between carious and non-carious lesions affecting hard tooth structure.
- Describe and classify different instruments used in operative dentistry and explain their optimum and convenient usage.
- Distinguish different materials used for pulp protection.

Subject-specific cognitive skills

- Select cavity preparation for amalgam restorations including class I and II.
- Distinguish different cavity types and the characteristics of cavity

  Preparations suitable for amalgam restorative materials.

Subject-specific practical skills

- Prepare cavities class I & class II in upper and lower molars and premolars
  (Nissin Teeth)
- Use the different instruments that are commonly used in operative dentistry & explain their optimum & convenient usage.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis.
- Participate in team working and leadership activities.

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Content

Topics
Scope and objectives of operative dentistry.
Classifications of cavities and nomenclature.
General principles of cavity preparation.
Class I cavity preparation for amalgam
Class II cavity preparation for amalgam.
Instruments and instrumentation.
Carious and non-carious lesions.
Bases and liners.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically through demonstrations on teaching models.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
• James B. Summitt, J. William Robbins, Richard S. Schwartz	Latest Edition	• Fundamentals of Operative Dentistry, A Contemporary Approach	Quintessence Publishing
• Kidd, Smith,Wattson		• Pickard manual of operative dentistry.	Quintessence Publishing
• H. William Gilmore		• Operative Dentistry.	Quintessence Publishing
• M.A. Marzou		• Operative dentistry,Modern theory and practice.	Quintessence Publishing
• Roulet, Wilson		• Advances in operative dentistry Vol 1,2	Quintessence Publishing

Conservative Dentistry Pre-Clinical II

Semester Two

Module Code: CONSC02	**Title:** Conservative Dentistry Pre-Clinical II
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester Two 2nd Year	
Key words: Cavity, Filling, Restoration, Matrices	
Date of latest revision: September 2021	

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Aims

- This is a preclinical course designed to introduce the students to the science of operative dentistry.
- Provide the students with the basic knowledge of the fundamental and the principles of cavity preparation and instrumentation for different restorative materials as amalgam and direct tooth colored restorations.
- Give the students the properties, characteristics, handling and manipulative steps of the most commonly used different dental restorative materials as amalgam and resin composite restorations.
- Introduce the students to the concept of adhesion.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify amalgam restorative materials and describe its properties, classifications, composition, manipulation, application, advantages and disadvantages.
- Define basics of composite restorative materials and describe its properties, classifications, composition, manipulation, application, advantages and disadvantages.
- Associate between the properties of direct restorative materials and their cavity preparations.
- Identify principles of adhesion.
- Differentiate between different dental matrices instruments and their use with different restorative materials.

Subject-specific cognitive skills

- Distinguish different cavity types and the characteristics of cavity preparations suitable for amalgam and resin composite restorative materials.
- Distinguish different manipulative steps to restore prepared cavities with amalgam and resin composite restorative materials.

Subject-specific practical skills

- Prepare cavities class I & class II in upper and lower molars (Nissin Teeth).
- Use the different instruments that are commonly used in operative dentistry & explain their optimum & convenient usage.
- Restore the differently prepared cavities with either amalgam or composite restorations.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis.
- Participate in team working and leadership activities.

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Content

Topics
Amalgam restorations.
Introduction to Direct tooth-coloured restorations.
Introduction to adhesion
General principles of cavity preparation for composite restoration
Manipulative steps for Class I composite restoration
Dental Matrices

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically through demonstrations on teaching models.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
• James B. Summitt, J. William Robbins, Richard S. Schwartz	Latest Edition	• Fundamentals of Operative Dentistry, A Contemporary Approach	Quintessence Publishing
• Kidd, Smith,Wattson		• Pickard manual of operative dentistry.	Quintessence Publishing
• H. William Gilmore		• Operative Dentistry.	Quintessence Publishing
• M.A. Marzou		• Operative dentistry,Modern theory and practice.	Quintessence Publishing
• Roulet, Wilson		• Advances in operative dentistry Vol 1,2	Quintessence Publishing

Fixed Prosth Pre-Clinical I

Semester One

Module Code: FPROC01	**Title:** Fixed Prosth Pre-Clinical I
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Prof Ahmed Kouedi	
Academic Year taught: Semester One 2nd Year	
Key words: Crown, Bridge, Veneer, Ceramic	
Date of latest revision: September 2021	

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Aims

The preclinical lecture and laboratory course is concerned with beginning to appreciate and recognize the principles and techniques to differentiate between different crowns and fixed partial dentures.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Develop an understanding of the basic principles of fixed prosthodontics.
- Recognize and understand the basic principles of preparation.

Subject-specific cognitive skills

- Recognize which restoration best suits the treatment plan.

Subject-specific practical skills

- Enhance manual dexterity to follow principles of tooth reduction.

Key/transferable skills

- Differentiate between different fixed restorations.

Content

Topics
Introduction to fixed prosthodontics.
Diagnosis and treatment planning in fixed prosthodontics.
Principles of fixed prosthodontics.
Principles of tooth reduction for fixed prosthodontics.
Types of crowns and bridges.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**



Reading List

Author	Date	Title	Publisher
Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett, Herbert T. Shillingburg Jr	Latest Edition	Fundamentals of fixed prosthodontics	Quintessence Publishing
Herbert T. Shillingburg	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Pub Co

Fixed Prosthodontics Pre- Clinical II

Semester Two

Module Code: FPROC02	**Title:** Fixed Prosth Pre-Clinical II
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Prof.Ahmed Kouedi	
Academic Year taught: Semester Two 2nd Year	
Key words: Crown, Bridge, Veneer, Ceramic	
Date of latest revision: September 2021	

Aims

The preclinical lecture and laboratory course is concerned with principles of different tooth preparations and also acquaints and trains the student in the laboratory work and techniques required in the field of Fixed Prosthodontics.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Develop an understanding of the basic principles of fixed prosthodontics.
- Recognize and understand the basic principles of preparation and laboratory techniques of fixed Prosthodontics.

Subject-specific cognitive skills

- Prepare teeth for crown and bridge work.
- Manipulate different Impression materials.

Subject-specific practical skills

- Enhance manual dexterity and carving ability.

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Key/transferable skills

- Prepare teeth for crown and bridge work.
- Manipulate different Impression materials.

Content

Topics
Preparatory steps for full coverage crowns.
Basic principles of crown and bridge fabrication : -working casts and dies -wax patterns - different metals used for casting, spruing, investing and casting.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett, Herbert T. Shillingburg Jr	Latest Edition	Fundamentals of fixed prosthodontics	Quintessence Publishing
Herbert T. Shillingburg	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Pub Co

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Removable Prosthodontics Pre-Clinical I

Semester One

Module Code: RPROC01	**Title:** Removable Prosthodontics Pre-Clinical I
Credits: 3	
Prerequisite modules: Human Dentition – General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester One 2nd Year	
Key words: Complete Denture – Resins	
Date of latest revision: September 2021	

Aims

The preclinical and laboratory course provides an introduction to the concepts of diagnosis and treatment planning of complete dentures. The theoretical concepts and the necessary anatomical features of the maxillary and mandibular edentulous arches will be taught, as well as the laboratory steps of complete denture construction and its maintenance.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify different areas of edentulous maxillary and mandibular casts corresponding to anatomical structures important for the support of complete dentures.
- Understand the principles of complete denture construction.
- Identify different materials involved in construction of complete denture.

Subject-specific cognitive skills

- Develop the ability to formulate and fabricate laboratory steps of complete denture.

Subject-specific practical skills

- Perform the laboratory steps needed for fabrication of complete dentures.
- Enhance manual dexterity.

Key/transferable skills

- Manage appropriate professional development skills.
- Communicate with dental laboratory technicians.

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Content

Topics
Prosthodontic terms and steps of complete denture construction.
Extra-oral anatomical landmarks related to complete denture construction, maxillary and mandibular landmarks.
Identifying the limiting structures (outline) of upper and lower dentures and denture surfaces.
Techniques of impressions, different types of impression trays and boxing of the impression.
Relief and posterior palatal seal.
Occlusion blocks (record bases and occlusal rims).
Mandibular movement and their relation to complete denture construction.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
George A. Zarb, Charles L. Bolender, Gunnar E. Carlsson, Carl O. Boucher	Latest Edition	Boucher's Prosthodontic Treatment for Edentulous Patient	C.V. Mosby
Craig RG. Peyton F.A	Latest Edition	Restorative dental materials	Mosby

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Removable Prosthodontics Pre-Clinical II

Semester Two

Module Code: RPROC02	**Title:** Removable Prosthodontics Pre-Clinical II
Credits: 3	
Prerequisite modules: Human Dentition - General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester Two 2nd Year	
Key words: Complete Denture – Resins	
Date of latest revision: September 2021	

Aims

The preclinical and laboratory course provides an introduction to the concepts of diagnosis and treatment planning of complete dentures. The course in general is designed to prepare the students to understand the biological, mechanical and the aesthetic aspect of complete denture as well as the laboratory steps of complete denture construction and its maintenance.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the principles of complete denture construction and its maintenance.
- Identify the different devices involved in the construction of complete denture.

Subject-specific cognitive skills

- Develop the ability to formulate and fabricate laboratory steps of complete.

Subject-specific practical skills

- Perform the laboratory steps needed for fabrication, finishing and polishing of complete dentures.
- Enhance manual dexterity.

Key/transferable skills

- Manage appropriate professional development skills.
- Communicate with dental laboratory technicians.

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Content

Topics
Articulators and face bows.
Steps of jaw relation recording and mounting.
Selection of artificial teeth ,setting up and waxing up of denture base for clinical try-in.
Laboratory steps for processing of complete dentures and its maintenance.
Retention and stability of complete denture

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
George A. Zarb, Charles L. Bolender, Gunnar E. Carlsson, Carl O. Boucher	Latest Edition	Boucher's Prosthodontic Treatment for Edentulous Patient	C.V. Mosby
Craig RG. Peyton F.A	Latest Edition	Restorative dental materials	Mosby

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Bio physics & Dental Materials I

Semester One

Module Code: DMATC01	**Title:** Bio Physics & Dental Materials I
Credits: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Sayed Senior	
Academic Year taught: Semester One 2nd Year	
Key words: Physics, light, laser, Amalgam, Acrylic, Composite, Porcelain, implant.	
Date of latest revision: September 2021	

Aims

This course is designed to give the basics of physics. Special emphasis will be placed on physics in relation to dentistry. A course of biophysics comprising effects of ionizing radiation on living cells and tissues as well as types of lasers and their effects and applications. Also covers the chemical, physical and biological properties of dental materials as related to their applications in different branches of dentistry.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basics of physics.
- Recognize the basics of physics in relation to dentistry.
- Understand the physical, mechanical, and biological properties of dental materials.
- Identify basic properties of metals, alloys, polymers and ceramics.

Subject-specific cognitive skills

- Explore the basis of laboratory materials and procedures.
- Use their basic knowledge to identify the properties of different materials.

Subject-specific practical skills

- Conduct simple physics experiments.
- Select the appropriate dental material for a specific task.

Key/transferable skills

- Communicate and problem solving in the field of dental materials.

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Content

Topics
Basic principles of Physics
Electricity
Physics of Radiation
Structure of Matter
Physical Properties
Mechanical Properties
Metallurgy
Light curing
Principles of adhesion
Polymers
Tarnish and corrosion

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**



Reading List

Author	Date	Title	Publisher
Desmond M Burns	1975	Physics for Biology and Pre-Medical Students	Addison-Wesley Publishers
Rodney M. J. Cotterill	2002	Biophysics : An Introduction	John Wiley & Sons
Robert G., Ph.D. Craig, John M., Ph.D. Powers, John C., Ph.D. Wataha	2013	Craig's Restorative Dental Materials	C.V. Mosby
William D. Callister, Jr. David G. Rethwisch	2013	Materials Science and Engineering	John Wiley & Sons
Ralph W Phillips	2012	Phillips' Science of Dental Materials	Elsevier
William D. Callister Jr., David G. Rethwisch	2014	Materials Science and Engineering	Wiley, 2009

Bio physics & Dental Materials II

Semester Two

Module Code: DMATC02	**Title:** Bio Physics &Dental Materials II
Credits: 3	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Sayed Senior	
Academic Year taught: Semester Two 2nd Year	
Key words: Physics, light, laser, Amalgam, Acrylic, Composite, Porcelain, implant	
Date of latest revision: September 2021	

Aims

This course is designed to clarify 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Recognize the properties of metals, alloys, and ceramics.
- Describe and explore the principles of proper selection of dental materials.
- Understand the proper manipulation of different dental materials.

Subject-specific cognitive skills

- Explore the basis of laboratory materials and procedures.
- Use their knowledge to clarify the properties of modern dental materials in order to select and use the appropriate materials for the treatment of different cases.

Subject-specific practical skills

- Select the appropriate dental material for a specific task.
- Enhance the manual dexterity in mixing and manipulating dental materials.

Key/transferable skills

- Communicate and problem solving in the field of dental materials.

Content

Topics
Ceramics, adhesive and non-metallic filling materials
Casting technology
Investment materials
Metallic filling materials
Dental cements
Impression materials
Polymeric prosthetic materials
Ceramics and casting alloys
Laboratory materials and procedures
Base metals and wrought alloys
Noble Metal Casting Alloys
Model and die materials
Joining of Metals
Implant Materials
Endodontic Materials
Traumatic injury protecting materials
Bone substitute materials

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Methods of Learning & Teaching

- Lectures to introduce the basic principles of the course subjects.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Marcia Gladwin, Michael D. Bagby	Latest Edition	Clinical Aspects of Dental Materials	Lippincott Williams & Wilkins
William J. Jobrien	Latest Edition	Dental Materials and their Selection	Quintessence Publishing
Robert G., Ph.D. Craig, John M., Ph.D. Powers, John C., Ph.D. Wataha	2013	Craig's Restorative Dental Materials	C.V. Mosby

Oral Biology I

Semester One

Module Code: OBIOC01	**Title:** Oral Biology I
Credits: 3	
Prerequisite modules: General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Reham Magdy- dr. Mahmoud Ankily	
Academic Year taught: Semester One 2nd Year	
Key words: Enamel, Dentine, Cementum, Pulp	
Date of latest revision: September 2021	

Aims

The course introduces the student to the histology, functions, development and ultra-structure of the dental soft and hard tissues. The age changes of the dental tissues and the mechanisms of organic matrix formation and mineralization of hard dental structures are stressed.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe the basic structures of the hard and soft dental tissues.
- Discuss the histological stage for each tooth development stage.
- Discuss the mechanism of mineral deposition in hard dental tissues.
- Define the ultra-structure of hard and soft dental tissues.

Subject-specific cognitive skills

- Identify differences between normal dental tissues.
- Identify the tooth development stage.
- Correlate the Clinical findings with the histological details.
- Compare between the histological and ultrastructural features of dental tissues

Subject-specific practical skills

- Identify the hard and soft dental tissues spotting.
- Draw histological diagram for the hard and soft dental tissues.
- Identify the tooth development stage in a histological section.
- Draw a histological diagram for each tooth development stage.

Key/transferable skills

- Be provided with a firm base for other academic as well as clinical courses.
- Use the computer and internet efficiently to get the information.
- Communicate effectively with colleagues and staff members.
- Demonstrate appropriate professional attitude and behaviour in different situations.

Content

Topics
Tooth development.
Histological structure and genesis of Enamel and its age changes.
Histological structure and genesis of Dentin and its age changes.
Histological structure and genesis of Cementum and its age changes.
Histological structure and genesis of the pulp and its age changes.
Structure, Physiology and age changes of the periodontal ligaments.
Types of Bone and macro and microanatomy of alveolar process.

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Antonio Nanci	Latest Edition	Ten Kate's Oral Histology: Development, Structure and Function	C.V. Mosby
A. R. Ten Kate	Latest Edition	Oral Histology: Development, Structure and Function	Mosby Year Book

Oral Biology II

Semester Two

Module Code: OBIOC02	**Title:** Oral Biology II
Credits: 3	
Prerequisite modules: General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Reham Magdy- Dr. Mahmoud Ankily	
Academic Year taught: Semester Two 2nd Year	
Key words: Mucous Membrane , Salivary Glands, Maxillary Sinus , Eruption	
Date of latest revision: September 2021	

Aims

The course introduces the student to the histology, functions, development and ultra-structure of the oral and para-oral soft and hard tissues. The age changes of the oral and para-oral tissues. Embryology of the oral and para-oral soft and hard structures.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe the basic histological and ultra-structures of oral mucosa.
- Discuss the basic histological and ultra-structures of salivary glands.
- Discuss the mechanism tooth eruption and shedding.
- Define the histological features of TMJ and maxillary sinus.
- Discuss the development and growth of different oral and paraoral tissues.
- Describe basic information about stem cells.

Subject-specific cognitive skills

- Identify differences between histological and ultrastructural features of oral mucosa and other paraoral tissues in different sites.
- Identify differences between salivary glands types.
- Differentiate between different shedding and eruption stages.
- Compare between the histological and ultrastructural features of dental tissues
- Correlate the features of stem cell and its applications.
- Identify the methods of development and growth of different oral and paraoral tissues.

Subject-specific practical skills

- Identify the type of the oral and paraoral tissue through its histological features.
- Draw histological diagram for the oral and paraoral tissues.
- Identify the type of salivary gland.
- Draw a histological diagram for each salivary gland.
- Identify the histological features of stem cells.

Key/transferable skills

- Provide with a firm base for other academic as well as clinical courses.
- Use the computer and internet efficiently to get the information.
- Communicate effectively with colleagues and staff members.
- Demonstrate appropriate professional attitude and behaviour in different situations.

Content

Topics
Oral mucous membrane and Dentogingival junctions.
Salivary Gland and Saliva.
Tooth Eruption and Shedding.
Anatomy and histology of the maxillary sinus.
Anatomy, Histology and movements of the temporomandibular joint.
Stem cells features and applications.
Embryology, Germ layers and Branchial arches

Development of Face, Nasal Cavity, Palate and Tongue
Development and Growth of Mandible and Maxilla

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Antonio Nanci	Latest Edition	Ten Kate's Oral Histology: Development, Structure and Function	C.V. Mosby
A. R. Ten Kate	Latest Edition	Oral Histology: Development, Structure and Function	Mosby Year Book

Pharmacology I

Semester One

Module Code: PHARC01	**Title:** Pharmacology I
Credits: 2	
Prerequisite modules: Human Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Sayed El Rokh	
Academic Year taught: Semester One 2nd Year	
Key words: General Pharmacology, Autonomic	
Date of latest revision: September 2021	

Aims

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

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and Understanding

- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems.
- Discuss the adverse and toxic effects, and their management of commonly used groups of drugs especially encountered in the field of dental and oral medicine.
- Give an account on limitations to the use of drugs such as contraindications and drug interactions.
- Define clinically relevant age, sex and genetic related variations that affect response to drugs.
- Define the principles, the indications, the relative advantages and disadvantages of various pharmacotherapy modalities.
- Discuss the use of life saving drugs.

Subject-specific cognitive skills

- Establish the concepts of different techniques of drug administration.
- Consideration of drug history of the patient.
- Detection and management of drug adverse reactions.
- Audit prescriptions citing multiple drugs to detect problematic drug interactions.

Subject-specific practical skills

- Observe, record and analyze the effect of drugs on biological tissues.
- Prescribe drugs for common dental and medical ailments.
- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies. A tailor-fitted choice of the proper drug/s for the proper clinical situation in proper dosage and proper duration
- Monitor the effectiveness and toxicity of therapy.

Key/transferable skills

- Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture.
- Provide appropriate basic drug education to the patient and his family.
- Appreciate the importance of effective communication with other health care professionals to maximize patient benefits and minimize the risk of errors.

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- Appreciate the importance of effective communication with patients and their surrogates.
- Stress on the importance of life-long self-learning and show a strong commitment to it.
- Use current I.T. for appropriate drug database to reach information about a specific medication.
- Respect patient's beliefs, values and privacy.
- Respect ethics related to drug prescription and use especially to drugs liable to produce abuse.
- Recognize and effectively deal with unethical behaviour of other members of healthcare team.



Content

Topics
Theoretical
General pharmacology: 1. General principles of pharmacology; sources and nature of drugs dosage forms; - Pharmacokinetics (absorption, distribution, metabolism and excretion of drugs). - Pharmacodynamics, combined effects of drugs, receptor mechanism of drug action, factors modifying drug response, adverse drug reactions, and drug interactions.
2.Autonomic drugs: Drugs acting on the central nervous system: – Introduction to autonomic nervous system. – Sympathomimetics. – Sympatholytics. – Parasympathomimetics – Parasympatholytics – Drugs acting on autonomic ganglia.
3. Autocoids. Histamine, antihistamines, angiotensin, angiotensin receptor blockers, prostaglandins, leukotrienes and bronchodilators.
Renal pharmacology.
PRACTICAL & APPLIED PHARMACOLOGY -Dosage forms -Routes of drug administration -Prescription Writing -Locally acting drugs -Effect of drugs on isolated heart -Effect of drugs on isolated intestine -Emergencies in dental practice

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.



Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Goodman, Louis	Latest Edition	The Pharmacological Basis of Therapeutics	McGraw Hill, Health Professions Division
G. Katzung	Latest Edition	Basic and Clinical Pharmacology	McGraw Hill Companies

Advanced Pharmacotherapy Practice in Dentistry

Semester Two

Module Code: APPDC02	**Title:** Advanced Pharmacotherapy Practice in Dentistry
Credits: 2	
Prerequisite modules: Human Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Sayed El Rokh	
Academic Year taught: Semester Two 2nd Year	
Key words: Antibiotics, Analgesics, Drug Interactions	
Date of latest revision: September 2021	

Aims

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

Intended Learning Outcomes

On completion of this module students should be able to:

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Knowledge and Understanding

- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems.
- Discuss the adverse and toxic effects, and their management of commonly used groups of drugs especially encountered in the field of dental and oral medicine.
- Give an account on limitations to the use of drugs such as contraindications and drug interactions.
- Define clinically relevant age, sex and genetic related variations that affect response to drugs.
- Define the principles, the indications, the relative advantages and disadvantages of various pharmacotherapy modalities.
- Discuss the use of life saving drugs.

Subject-specific cognitive skills

- Establish the concepts of different techniques of drug administration.
- Considerate drug history of the patient.
- Detect and management of drug adverse reactions.
- Audit prescriptions citing multiple drugs to detect problematic drug interactions.

Subject-specific practical skills

- Observe, record and analyse the effect of drugs on biological tissues.
- Prescribe drugs for common dental and medical ailments.
- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies. A tailor-fitted choice of the proper drug/s for the proper clinical situation in proper dosage and proper duration
- Monitor the effectiveness and toxicity of therapy.

Key/transferable skills

- Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture.
- Provide appropriate basic drug education to the patient and his family.
- Appreciate the importance of effective communication with other health care professionals to maximize patient benefits and minimize the risk of errors.
- Appreciate the importance of effective communication with patients and their surrogates.
- Stress on the importance of life-long self-learning and show a strong commitment to it.
- Use current I.T. for appropriate drug database to reach information about a specific medication.
- Respect patient's beliefs, values and privacy.
- Respect ethics related to drug prescription and use especially to drugs liable to produce abuse.
- Recognize and effectively deal with unethical behaviour of other members of healthcare team.

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Content

Topics
Theoretical
- Pain management • Non-steroidal antiinflammatory drugs, • Opoids - Antibiotics uses, side effects and toxicity. Infection management in dentistry. - Local and General anaesthetics. - Sedative-and anti-anxiety drugs. - Drugs acting on blood; coagulants and anticoagulants. - Prescribed drugs in compromised patients (Hypertensives, diabetics, renal and hepatic patients). - Geriatrics and pregnancy drugs. - Acute care clinical emergencies. - Most common drugs interactions
PRACTICAL & APPLIED PHARMACOLOGY
1- Treatment of oral condition 2- Drug Related problems 3- Cardiovascular drugs; - Cardiac stimulants; -antihypertensive drugs, - vasopressor agents, -Antianginal agents and diuretics, - Treatment of heart failure.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Goodman, Louis	Latest Edition	The Pharmacological Basis of Therapeutics	McGraw Hill, Health Professions Division
G. Katzung	Latest Edition	Basic and Clinical Pharmacology	McGraw Hill Companies

General Pathology I

Semester One

Module Code: GPATC01	**Title:** General Pathology I
Credits: 2	
Prerequisite modules: Human Physiology, General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Magdy Mansy	
Academic Year taught: Semester One 2nd Year	
Key words: Inflammation, Hyperplasia, Neoplasia	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basic pathogenesis of disease and the mechaniGMS of inflammation and repair.
- Understand the mechanism and pathogenesis of neoplasia.
- Understand the basis of genetic and developmental disorders.

Subject-specific cognitive skills

- Be familiar with the pathological features and dental relevance of common disorders of

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the major organ systems.

Subject-specific practical skills

- Identify diseased human tissues.

Key/transferable skills

- Use the light microscope to differentiate diseased human tissues.

Content

Topics
Inflammation and repair.
Pulmonary disturbances
Disorders of growth
Neoplasia.
Developmental and genetic mechanisms of disease.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Vinay Kumar, Nelson Fausto, Abul Abbas	Latest Edition	Robbins & Cotran Pathologic Basis of Disease	W.B. Saunders
J. B. Walter, Margaret C. Grundy	Latest Edition	Walter, Hamilton and Israel's Principles of Pathology for Dental Students	Churchill Livingstone

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General Pathology II

Semester Two

Module Code: GPATC02	**Title:** General Pathology II
Credits: 2	
Prerequisite modules: Human Physiology, General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Magdy Mansy	
Academic Year taught: Semester Two 2nd Year	
Key words: Inflammation, Hyperplasia, Neoplasia	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the basic pathogenesis of disease and the mechaniGMS of inflammation and repair.
- Understand the mechanism and pathogenesis of neoplasia.
- Understand the basis of genetic and developmental disorders.

Subject-specific cognitive skills

- Be familiar with the pathological features and dental relevance of common disorders of the major organ systems.

Subject-specific practical skills

- Identify diseased human tissues.

Key/transferable skills

- Use the light microscope to differentiate diseased human tissues.

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Content

Topics
Concepts of cellular injury.
Circulatory disturbances
Immunity and hypersensitivity
Specific infectious diseases.
Viral infections.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Vinay Kumar, Nelson Fausto, Abul Abbas	Latest Edition	Robbins & Cotran Pathologic Basis of Disease	W.B. Saunders
J. B. Walter, Margaret C. Grundy	Latest Edition	Walter, Hamilton and Israel's Principles of Pathology for Dental Students	Churchill Livingstone



Conservative Dentistry Pre-Clinical III

Semester One

Module Code: CONSC03	**Title:** Conservative Dentistry Pre-Clinical III
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester One 3rd Year	
Key words: Caries, Cavity, Restoration, Isolation, Adhesion	
Date of latest revision: September 2021	

Aims

- This is a preclinical course designed to introduce the students to the science of operative dentistry.
- Introduce the concept of chair position and the use of simulators.
- Provide the students with the basic knowledge of the principles of cavity preparation and instrumentation for direct tooth colored restorations.
- Provide the student with the theoretical expertise in the identification of tooth form and occlusion together with its clinical relevance.
- Give the students the basics, properties, characteristics and manipulative steps of adhesion and direct tooth colored restorations.
- Determine of the recent advances in the adhesion and the direct tooth colored restorations.
- Enable the students to master application of posterior direct dental restorations and restoring the lost tooth structure optimally.
- Explain the importance of tooth isolation.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify different chair and operating positions and their importance during the procedural sessions.
- Judge the problem of bonding to the tooth structure.
- Formulate an idea about different bonding strategies to the tooth structure.
- Identify direct resin composite restoration and describe its properties, classifications, composition and advancements.

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- Correlate between the properties of different restorative materials and their cavity preparations.
- Tell the impact of normal anatomy, histology and physiology of teeth on the cavity preparation and restoration.
- Explain the importance and methods of moisture control with emphasis on rubber dam.
- Identify the importance and manipulative steps of restoring the lost tooth structure and the different instruments used with direct composite restoration (posterior teeth).

Subject-specific cognitive skills

- Select each cavity preparation for a specific restoration including class I & II.
- Distinguish the characteristics of the cavity preparation suitable for each restorative material.
- Distinguish the importance of tooth matricing.

Subject-specific practical skills

- Prepare class I & class II cavities in upper and lower posterior teeth.
- Use the different instruments that are commonly used in operative dentistry & explain their optimum & convenient usage.
- Restore the prepared teeth using resin composite restoration.
- Apply rubber dam and do sectional isolation.

Key/transferable skills

- Use the information technology as a mean of communication for data collection and analysis.
- Practice in team working and leadership activities.

Content

Topics
Isolation & Rubber dam application
Tooth form & occlusion
Resin Composite restoration
Cavity preparation for composite restoration
Dental matrices for composite restoration
Manipulation of posterior composite restoration
Adhesion

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically through demonstration on teaching models.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
• James B. Summitt, J. William Robbins, Richard S. Schwartz	Latest Edition	• Fundamentals of Operative Dentistry, A Contemporary Approach	Quintessence Publishing
• Kidd, Smith,Wattson		• Pickard manual of operative dentistry.	Quintessence Publishing
• H. William Gilmore		• Operative Dentistry.	Quintessence Publishing
• M.A. Marzou		• Operative dentistry,Modern theory and practice.	Quintessence Publishing
• Roulet, Wilson		• Advances in operative dentistry Vol 1,2	Quintessence Publishing

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Conservative Dentistry Pre-Clinical IV

Semester Two

Module Code: CONSC04	**Title:** Conservative Dentistry Pre-Clinical IV
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester Two 3nd Year	
Key words: Caries, Cavity, Filling	
Date of latest revision: September 2021	

Aims

- This is a preclinical course designed to introduce the student to the science of operative dentistry.
- Give the basics of direct and indirect dental restorative materials.
- Determine of the recent advances in tooth colored restoration (direct & indirect).
- Enable the students to master the application of anterior direct tooth colored restorations.
- Introduce the concept of minimal invasive dentistry.
- Enable the students to properly select the most suitable restorative material.
- Introduce the cast gold and aesthetic indirect restorations.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify different restorative materials (glass ionomer, cast gold and indirect esthetic restorations) and describe their properties, classifications, composition, manipulation and advancements.
- Identify the importance and manipulative steps of restoring the lost tooth structure and the different instruments used with direct composite restoration (anterior teeth).
- Know the importance of implementing the minimal invasive dentistry concept.
- Select the most suitable restorative material.

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Subject-specific cognitive skills

- Select each cavity preparation for a specific restoration including class III, VI and V.
- Distinguish the characteristics of cavity preparation suitable for each restorative material.
- Select the most suitable restorative material.
- Determine the optimal way to achieve perfectly bonded indirect restorations.

Subject-specific practical skills

- Prepare class III, VI & V cavities in anterior teeth.
- Use the different instruments that are commonly used in operative dentistry & explain their optimum & convenient usage.
- Restore the prepared teeth using resin composite and glass ionomer restoration.
- Apply rubber dam and do sectional isolation.

Key/transferable skills

- Use the information technology as a mean of communication for data collection and analysis.
- Practice in team working and leadership activities.

Content

Topics
Manipulation of anterior composite restoration.
Biological model of treatment.
Glass ionomer restoration.
Indirect restorations (cast gold).
Aesthetic indirect restorations
Selection of the restorative material

Methods of Learning & Teaching Lectures to explain underlying principles.

- Tutorials to help in understanding these principles.
- Lab to apply those principles practically through demonstration on teaching models.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
• James B. Summitt, J. William Robbins, Richard S. Schwartz	Latest Edition	• Fundamentals of Operative Dentistry, A Contemporary Approach	Quintessence Publishing
• Kidd, Smith,Wattson		• Pickard manual of operative dentistry.	Quintessence Publishing
• H. William Gilmore		• Operative Dentistry.	Quintessence Publishing
• M.A. Marzou		• Operative dentistry,Modern theory and practice.	Quintessence Publishing
• Roulet, Wilson		• Advances in operative dentistry Vol 1,2	Quintessence Publishing

Fixed Prosthodontics Pre-Clinical III

Semester One

Module Code: FPROC03	**Title:** Fixed Prosthodontics Pre-Clinical III
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Ahmed Sabet	
Academic Year taught: Semester One 3rd Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	

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Aims

During this preclinical course, the student starts to practice on dental simulator the previous acquired skills in the crown preclinical training of different designs and preparations. This will help gain the experience, knowledge and skills needed for real clinical procedures before they practice on patient.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Can simulate different tooth preparations, dental positions and get feedbacks, so they can learn with their mistakes.

Subject-specific cognitive skills

- Acquire requisite skills of different tooth preparations and designs before real-life clinical applications

Subject-specific practical skills

- Put theory and acquired preclinical skills of different tooth preparations designs into practice and preclinical simulation.

Key/transferable skills

- Develop a suitable level of understanding and dexterity to successfully be able to apply when treating patients in the dental clinic

Content

Topics
Diagnosis and treatment planning for fixed prosthodontics.
Partial veneer crowns.
Impression materials and techniques.
Inter-occlusal records.
Provisional Restorations.
The science of colour.
Metal-ceramic Restorations.



Methods of Learning & Teaching

- Lectures to explain underlying principles.

- Tutorials to help in understanding these principles.
- Simulator labs to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

Fixed Prosthodontics Pre-Clinical IV

Semester Two

Module Code: FPROC04	**Title:** Fixed Prosthodontics Pre-Clinical IV
Credits: 3	
Prerequisite modules: Human Dentition	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Ahmed Sabet	
Academic Year taught: Semester Two 3rd Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	



Aims

In this preclinical course, there will be improvement in decision-making skills and ability to fabricate fixed partial prosthodontics bridge. The student will be able to do complete procedures for delivering a dental bridge simulating a clinical case.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Evaluate the principles necessary to provide fixed prosthodontics bridge.
- Critically examine and evaluate the role of fixed prostheses.

Subject-specific cognitive skills

- Have appropriate professional skills.
- Communicate with dental laboratory technicians.

Subject-specific practical skills

- Understand the dental bridge procedures in a more practical sense
- Manipulate different Impression materials.

Key/transferable skills

- Increase clinical performance and self-insight of the student
- Have higher level of understanding and application of fixed prosthesis bridge knowledge.

Content

Topics
Pontics.
Fixed prosthodontic design.
Connectors.
Precision attachments.
Occlusion.
Problems in design of fixed prosthodontics.
Aesthetic porcelain laminates.

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Dental simulators to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

Removable Prosthodontics Pre-Clinical III

Semester One

Module Code: RPROC03	**Title:** Removable Prosthodontics Pre-Clinical III
Credits: 3	
Prerequisite modules: Human Dentition - General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester One 3rd Year	
Key words: Partial Denture - Partially Edentulous arches	
Date of latest revision: September 2021	

Aims

The course is designed to teach the student didactically the classification of different partially edentulous arches and objectives of removable partial denture. It covers the principles and components of removable partial dentures as well as the sequence and technical procedures involved in the fabrication of different designs of removable partial dentures, with emphasis on considerations such as support, retention, stability, reciprocation, occlusion and health of the oral structures.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Classify partially edentulous cases.
- Understand objectives and indications of partial denture.
- Understand the principles of partial denture construction.
- Understand functional forces acting in partial denture.
- Identify different components of partial denture.

Subject-specific cognitive skills

- Develop the ability to formulate and fabricate partial dentures.
- Develop the ability to differentiate between different components of partial dentures.

Subject-specific practical skills

- Design different types of partial dentures.
- Perform the laboratory steps needed for fabrication of removable partial dentures.
- Enhance manual dexterity.

Key/transferable skills

- Manage appropriate professional development skills.
- Able to communicate with dental laboratory technicians.

Content

Topics
Terminology, indications and objectives of removable partial dentures.
Classification of partially edentulous arches.
Components of partial dentures: denture base, artificial teeth, connectors and rests.
Principles of design of partial dentures.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Alan B. Carr, Glen P. McGivney, David T. Brown	Latest Edition	McCracken's Removable Partial Prosthodontics	Mosby-Year Book
Rodney D. Phoenix, David R. Cagna, Charles F. Defreest, Kenneth L.	Latest Edition	Stewart's Clinical Removable Partial Prosthetics	Quintessence Publishing

Removable Prosthodontics Pre-Clinical IV

Semester Two

Module Code: RPROC04	**Title:** Removable Prosthodontics Pre-Clinical IV
Credits: 3	
Prerequisite modules: Human Dentition – General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester Two 3nd Year	
Key words: Partial Denture - Partially Edentulous arches	
Date of latest revision: September 2021	

Aims

The course is designed to teach the student didactically and in the laboratory the principles and components of removable partial dentures and the sequence and technical procedures involved in the fabrication of different designs of removable partial dentures, with emphasis on forces acting on partial denture and health of oral structures. The course in general is designed to prepare the students to understand the biological, mechanical and the aesthetic aspect of partial denture

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the principles of partial denture construction.
- Understand functional forces acting in partial denture.
- Identify different components of partial denture.
- Understand principles of surveying of partial denture.
- Understand principles of insertion and maintenance of partial denture.

Subject-specific cognitive skills

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- Develop the ability to formulate and fabricate partial dentures.
- Develop the ability to differentiate between different components of partial dentures.

Subject-specific practical skills

- Design different types of partial dentures.
- Perform the laboratory steps needed for fabrication of removable partial denture and its maintenance.
- Enhance manual dexterity.

Key/transferable skills

- Manage appropriate professional development skills.
- Able to communicate with dental laboratory technicians.

Content

Topics
Components of partial dentures: retainers and indirect retainers.
Principles of design of partial dentures.
Surveying of partial dentures.
Functional forces acting on partial dentures.
Fabrication of partial dentures.
Insertion and maintenance of partial dentures.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Alan B. Carr, Glen P. McGivney, David T. Brown	Latest Edition	McCracken's Removable Partial Prosthodontics	Mosby-Year Book
Rodney D. Phoenix, David R. Cagna, Charles F. Defreest, Kenneth L.	Latest Edition	Stewart's Clinical Removable Partial Prosthetics	Quintessence Publishing

Oral Pathology I

Module Code: OPATC03	**Title:** Oral Pathology I
Credits: 3	
Prerequisite modules: General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Salah Hamed	
Academic Year taught: First semester 3rd year	
Key words: Caries, Enamel Hypoplasia	
Date of latest revision: September 2021	

Aims

This is a comprehensive course on dental and odontogenic 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Define the basics of human dental affections.
- List the pathogenesis and classification of dental and oral diseases.
- Describe the aetiology and pathological processes of dental and oral diseases.
- Enumerate the causes and effects of oral diseases needed for their prevention, diagnosis and management.

Subject-specific cognitive skills

- Identify Odontogenic tumours of oral and para-oral structures at an early stage.
- Estimate the appropriate treatment plan for dental and oral diseases

Subject-specific practical skills

- Identify dental diseases based on history, clinical and histological examination.
- Diagnose and report on slides of pathological cases.
- Diagnose different pathological conditions and recommend a proper treatment plan.

Key/transferable skills

- Engage in team work.
- Manage workload and related stress.

Content

Topics
Developmental disturbances of the teeth and calcified dental tissues.
Dental caries, aetiology, clinical, radiographic and histopathological features.
Diseases of the dental pulp.
Diseases of the periapical tissues.
Cysts of the jaws, oral and para-oral region.
Odontogenic tumours.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
J. Philip Sapp, Lewis Roy Eversole, George P. Wysocki	Latest Edition	Contemporary Oral and Maxillofacial Pathology	C.V. Mosby
Robert P. Ficd Langlais, Craig S. Miller, Craig S. Miller	Latest Edition	Color Atlas of Common Oral Diseases	Lippincott Williams & Wilkins

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Oral Pathology II

Semester Two

Module Code: OPATC04	**Title:** Oral Pathology II
Credits: 3	
Prerequisite modules: General Histology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Salah Hamed	
Academic Year taught: Second semester 3rd year	
Key words: Dry Socket, Squamous Cell Carcinoma	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Define the basics of human oral and para-oral affections.
- List the pathogenesis and classification of oral diseases.
- Describe the aetiology and pathological processes of oral diseases.
- Enumerate the causes and effects of oral diseases needed for their prevention, diagnosis and management.

Subject-specific cognitive skills

- Identify oral tumours and neoplasms of oral and para-oral structures at an early stage.
- Distinguish diseases and neoplasms affecting the bones of the jaws and the salivary glands.
- Estimate the appropriate treatment plan for oral diseases

Subject-specific practical skills

- Identify oral diseases based on history, clinical and histological examination.
- Diagnose and report on slides of pathological cases.
- Diagnose different pathological conditions and recommend a proper treatment plan.

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Key/transferable skills

- Engage in team work.
- Manage workload and related stress.

Content

Topics
Developmental disturbances of the face and jaws.
Benign neoplasms of the oral cavity.
Premalignant lesions of the oral cavity.
Malignant neoplasms of the oral cavity.
Bone diseases and neoplasms.
Salivary gland diseases and neoplasms.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
J. Philip Sapp, Lewis Roy Eversole, George P. Wysocki	Latest Edition	Contemporary Oral and Maxillofacial Pathology	C.V. Mosby
Robert P. Ficd Langlais, Craig S. Miller, Craig S. Miller	Latest Edition	Color Atlas of Common Oral Diseases	Lippincott Williams & Wilkins

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Endodontic Pre-Clinical I

Semester One

Module Code: ENDOC03	**Title:** Endodontic Pre-Clinical I
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamad Medhat Kataia	
Academic Year taught: Semester One 3rd year	
Key words: Cleaning and Shaping, Endodontic Files, Root Canal Anatomy	
Date of latest revision: September 2021	

Aims

The course is concerned with study and exploration of the morphology, physiology and pathology of the human dental pulp and periapical tissues. It concentrates on the mechanical aspects of cavity preparation and gaining access to root canals, as well as cleaning, shaping and filling of root canals.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify scope of endodontics, objectives, indications and contraindications of root canal treatment.
- Define different steps in endodontic treatment including access cavity preparation, root canal preparation, and obturation.
- Describe macroscopic anatomy of pulp space for anterior, premolar and molar permanent teeth.
- Classify different types of root canal system
- State the fundamentals of access cavity preparation principles and its steps.
- Describe access cavity preparation design and procedure different group of teeth.
- Describe the different types of endodontic instruments and devices
- Describe ISO standardization of hand files
- Describe different endodontic materials; irrigation solutions, intracanal medicaments and obturation materials.
- State intraradicular preparation principles and its steps.
- Describe the different techniques of intraradicular preparation

Subject-specific cognitive skills

- Compare between different types of root canal systems
- Interpret the shape and position of access cavity based on the different anatomy of the pulp space in each tooth
- Correlate between root canal enlarging instrument design and its use
- Interpret straight on and angled working radiographs.

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- Apply the knowledge gained to prepare and fill the radicular space of different teeth
- Correlate between root canal enlarging instrument design and its use

Subject-specific practical skills

- Draw and label the outline form of the access preparation for all teeth showing the location of each orifice relative to the occlusal or lingual surface.
- Prepare access cavities in anterior, premolar and molars on extracted teeth.
- prepare and work in an infection controlled at atmosphere
- Prepare root canal space using step back and hybrid techniques on extracted teeth.
- Prepare root canal space using a rotary nickel-titanium system on extracted teeth.

Key/transferable skills

- Communicate effectively and ethically with members of the dental staff, and the laboratory technicians.
- Realize how to efficiently use and protect endodontics laboratory equipment, instruments and materials.

Content

1	Introduction to the course and Scope of endodontics
2	Pulp space morphology and macroscopic anatomy
3	Endodontic access cavity preparation
4	Endodontic instruments
5	Cleaning and Shaping

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Stephen Cohen; Richard C. Burns	Latest Edition	Pathways of the Pulp	C.V. Mosby
John I. Ingle; Leif K. Backland	Latest Edition	Endodontics	Decker Inc.

Endodontic Pre-Clinical II

Semester Two

Module Code: ENDOC04	**Title:** Endodontic Pre-Clinical II
Credits: 2	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamad Medhat Kataia	
Academic Year taught: Semester Two 3rd year	
Key words: Cleaning and Shaping, Endodontic Files, Root Canal Anatomy	
Date of latest revision: September 2021	

Aims

The course is concerned with study and exploration of the morphology, physiology and pathology of the human dental pulp and periapical tissues. It concentrates on the mechanical aspects of cavity preparation and gaining access to root canals, as well as cleaning, shaping and filling of root canals.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- State obturation objectives and principles.
- Describe the different techniques of intraradicular preparation
- Recognize the clinical criteria that determine when to obturate the canals as well as list the criteria for the ideal obturating material
- Define and differentiate between lateral and vertical compaction and suggest where each is indicated in addition to describing other techniques including thermo-plasticization, thermoplastic compaction, paste injection, core carrier systems, and sectional obturation.
- Recognize the procedural accidents and describe the causes, prevention & treatment.
- Describe how to detect the presence and to locate undiscovered canals on angled working radiographs.
- Recognize different types of endodontic infections and the main microbial species.

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- Describe the predominant bacteria, their virulence and the reaction of the pulp and periradicular tissues to bacteria.
- Diagnose clinical signs for pulp and periapical disease.
- Describe the role of radiography in Endodontics and its techniques
- Recognize the various conditions requiring endodontic intervention.
- Describe the different responses of patients to diagnostic aids.
- Select proper cases for endodontic treatment and also be able to plan the necessary treatment leading to a successful endodontic outcome.
- Identify the basics of Laboratory safety and infection control measures.

Subject-specific cognitive skills

- Compare between the properties of different obturation materials and techniques
- Compare between the different local anaesthesia techniques
- Select the suitable techniques for isolation of difficult cases in endodontics
- Self-evaluate his/her diagnostic and clinical level of performance.
- Differentiate between pulp and periapical pain
- Plan the treatment schedule according to the academic priority
- Correlate between diagnostic measures and the course of treatment selected
- Correlate between the information they know and the case management protocol to be chosen.

Subject-specific practical skills

- Obturate root canals using lateral compaction technique.
- Prepare and work in an infection controlled at atmosphere

Key/transferable skills

- Communicate effectively and ethically with members of the dental staff & laboratory technicians.
- Realize how to efficiently use and protect endodontics laboratory equipment, instruments and materials.
- Develop positive behavioural management for anxiety during clinical work.
- Develop self-evaluation of work and recognition of procedural errors.

Content

1	Obturation of root canals
2	Mishaps
3	Endodontic Microbiology
4	Endodontic Diagnosis & Case selection
5	Pulp and Periapical disease

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stephen Cohen; Richard C. Burns	Latest Edition	Pathways of the Pulp	C.V. Mosby
John I. Ingle; Leif K. Backland	Latest Edition	Endodontics	Decker Inc.

Oral Radiology Preclinical I

Semester One

Module Code: ORADC03	**Title:** Oral Radiology Preclinical I
Credits: 2	
Prerequisite modules: General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Hossam kandil	
Academic Year taught: Semester One 3rd year	
Key words: Periapical Radiographs - Occlusal Radiographs	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

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- Comprehend the basic principles, properties of ionizing radiation and production of x-radiation
- Understand the geometry of image production
- Master the techniques of periapical radiography
- Identify the causes for faulty radiographs.
- Have a thorough knowledge of normal anatomical landmarks.
- Recognise major principles of radiation protection (effect of radiation on both the somatic and genetic levels.

Subject-specific cognitive skills

- Prescribe, take, and process different types of radiographs related to the mouth and jaws.
- Demonstrate the ability of professional judgment in patient selection for radiographic examination
- Be aware of the hazards of radiation and be alert all the time so as not to put Theirs or others health at risk

Subject-specific practical skills

- Interpret and write informative reports on the findings of radiographs.
- Process dental x-ray films.

Key/transferable skills

- Critically appraise and evaluate the use of oral radiology in the differential diagnosis of diseases and lesions of the oral and para-oral region.

Content

Topics
Introduction to physics, EMS and x-ray properties, x-ray machine
X-ray production and factors affecting beam quality
Dental x-ray films and Intensifying screens (Part I)
Dental x-ray films and Intensifying screens (Part II)
Intra-oral Techniques (periapical film radiography & Bite-wing radiography)
- Intra-oral Techniques (Occlusal film radiography) - Object Localiztion Techniques
Processing of X-ray Films
Image characteristics (Visual & Geometric image characteristics)
Intra-oral Normal Anatomical Landmarks (Maxilla)

Intra-oral Normal Anatomical Landmarks (Mandible)
Radiographic Errors and Artifacts
Protection and radiation hazards

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs and clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
White and phroah	8th edition	Oral radiology, principles and interpretation	C.V.Mosby
Eric Whaites	Latest Edition	Essentials of Dental Radiography and Radiology	Churchill Livingstone
Norman K. Wood	Latest Edition	Review of Diagnosis, Oral Medicine, Radiology, and Treatment Planning	C.V. Mosby

Oral Radiology Preclinical II

Semester Two

Module Code: ORADC04	**Title:** Oral Radiology Preclinical II
Credits: 2	
Prerequisite modules: General and Applied Clinical Anatomy	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Hossam Kandil	
Academic Year taught: Semester Two 3rd year	
Key words: Periapical Radiographs - Occlusal Radiographs	
Date of latest revision: September 2021	

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Aims

The course teaches the fundamentals of extra-oral techniques, panoramic and digital radiography. How to write a radiographic report of certain diseases e.g. infection, caries, periodontal diseases and cystic lesions.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Have a thorough knowledge of digital, panoramic and extra-oral techniques
- State the principles upon which all the intra-oral and extra-oral radiographic techniques are based including panoramic and digital radiography
- Identify carious, periodontal and periapical lesions of radiographic examination
- Identify different types of cystic lesions.

Subject-specific cognitive skills

- Prescribe, take panoramic, digital and extra-oral radiograph.
- Describe radiographically step-by step different lesions.

Subject-specific practical skills

- Interpret and write informative reports on the findings of radiographs.

Key/transferable skills

-Critically appraise and evaluate the use of oral radiology in the differential diagnosis of diseases and lesions of the oral and para-oral region.

Content

Topics
Extra-oral radiographic techniques
Panoramic radiography
Digital imaging
Principles of radiographic interpretation (Part I)
Principles of radiographic interpretation (Part II)
Infection of teeth and jaws
Dental anomalies
Radiographic interpretation of caries
Radiographic interpretation of periodontal diseases
Cyst and cyst-like lesions

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs and clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
White and phroah	8th edition	Oral radiology, principles and interpretation	C.V.Mosby
Eric Whaites	Latest Edition	Essentials of Dental Radiography and Radiology	Churchill Livingstone
Norman K. Wood	Latest Edition	Review of Diagnosis, Oral Medicine, Radiology, and Treatment Planning	C.V. Mosby

General Medicine, Dermatology& Venereal Disease

Semester One

Module Code: GMEDC03	**Title:** G Medicine, Dermatology& Venereal Disease
Credits: 2	
Prerequisite modules: General and Applied Clinical Anatomy, H.Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ibrahim Yehia	
Academic Year taught: Semester One 3rd year	
Key words: Endocrine Glands, Cardiovascular System	
Date of latest revision: September 2021	

Aims

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, respiratory diseases, gastro-intestinal

diseases, haematological, diseases of the endocrine system, and neurological diseases. There is also a course on skin and venereal diseases and their oral manifestations.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Develop an increasing awareness of the basics of internal medicine.
- Explore and reflect upon the relationship between internal medicine and the practice of dentistry.
- Develop effective communication skills with patients, their relatives and fellow medical practitioners.

Subject-specific cognitive skills

- Deal with patients suffering from systemic diseases such as cardiac and diabetic patients and communicate with patients affected by general diseases in the dental setting.

Subject-specific practical skills

- Be familiar with the pathological features and dental relevance of common disorders of the major organ systems.

Key/transferable skills

- Take a proper medical history, especially concerning cardio-Respiratory diseases, haemorrhagic disorders, allergy and drug therapy.

Content

Topics
Diseases of the cardiovascular system.
Diseases of the respiratory system.
Diseases of the gastro-intestinal system; liver diseases.
Diseases of the blood.
Diseases of the nervous system.
Diseases of the endocrine glands.
Skin and venereal diseases and their oral manifestations.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

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Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Prasanna Sooriakumaran	Latest Edition	Key topics in human Diseases for Dental Students	Taylor & francis Group
Crispian Scully,Roderick A. Cawson	Latest Edition	Medical Problems in Dentistry	Butterworth-Heinmann

General Surgery Ophthalmology & ENT

Module Code: GSURC04	**Title:** Surgery Ophthalmology & ENT
Credits: 2	
Prerequisite modules: General and Applied Clinical Anatomy, H.Physiology	
Reassessment: *Re-exam in August*	
Internal examiner: Mohamed Fayek	
Academic Year taught: Semester Two 3rd Year	
Key words: Wound Healing, Haemorrhage, Ulcers	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Have a deep understanding of principles of surgical intervention.
- Recognize and evaluate the basis of occurrence of diseases that need to be referred to a specialist.

Subject-specific cognitive skills

- Observe and interpret physical signs in his clothed patients.

Subject-specific practical skills

- Manage simple wounds.
- Manage simple surgical problems in the dental setting.

Key/transferable skills

- Administer first aid and cardiopulmonary Resuscitation.
- Administer intra-muscular, intravenous and subcutaneous injections.
- Be competent at carrying out Resuscitation techniques and immediate management of cardiac arrest, anaphylactic reaction, upper Respiratory obstruction, vasovagal attack, haemorrhage, inhalation or ingestion of foreign bodies, and diabetic coma.

Content

Topics
Wounds and wound healing.
Haemorrhage, blood transfusion, and fluid therapy.
Specific and non-specific infections.
Ulcers, sinuses, and fistulae.
Trauma.
Diseases of the thyroid gland.
Principles of pre-operative and postoperative care.
Postoperative complications.
Diseases of the eyes and eye surgery.
Ear, nose, and throat surgery for dentists.
Diseases of the paranasal sinuses.

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Peter F. Lawrence, Peter F. Lawrence, Richard M. Bell	Latest Edition	Essentials of General Surgery	Lippincott Williams & Wilkins
D. MacLean, P.E. Peerce	Latest Edition	Lecture Notes on Clinical Medicine and Surgery for Dental Students	Year Book Medical Pub

Infection Control in Dental Practice

Semester One

Module Code: INFCC03	**Title:** Infection Control in Dental Practice
Credits: 1	
Prerequisite modules: Microbiology	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Reham Magdy	
Academic Year taught: Semester One 3rd year	
Key words: Sterilization, Disinfection, Prophylaxis measures	
Date of latest revision: September 2021	

Aims:

This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Topics include personal protective equipment, hand hygiene, sterilization and monitoring, chemical disinfectants, medical waste disposal, post-exposure prophylaxis and surgical aseptic technique. Practical sessions provide the

chance for the application of standard precautions. Upon completion, students should be able to understand infectious diseases transmission, infection control procedures and biohazard management.

Intended Learning outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Discuss occupational exposures to blood borne pathogens, including prevention, post-exposure management, and prophylaxis.
- Summarize how to process dental instruments to prevent cross infection in dental setting
- Explain infection control measures in special settings such as surgical ward, radiology department and labs.

Intellectual Skills:

- Distinguish between hand wash and alcohol rub.
- Select the types of sterilization monitoring systems.
- Identify the various methods of disinfection and sterilization.
- Design waste management plan
- Determine the appropriate post-exposure prophylaxis measures

Professional Skills:

- Perform hand hygiene.
- Perform proper placement and removal of personal protective equipment.
- Apply infection control measures when dealing with environmental surfaces
- Adhere to standards during processing of instruments
- Follow procedures for both laboratory asepsis and radiology asepsis

Key/transferable skills

- Work effectively in a team

Content

Topics
Introduction
Hand - hygiene.
Personal protective equipment.
Environmental surface – water lines.
Waste disposal (medical, sharp, extracted teeth).
Processing of instruments
Post-exposure prophylaxis- lab and radiology settings.
Infection control in surgical ward.,
Practical: Hand hygiene – donning and removal of PPE – cleaning and disinfection of dental unit in dental clinic. Instrument processing in central sterilization unit.

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Methods of Learning & Teaching

- lecture
- Group discussion
- Practical sessions

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading list

A- Course Notes:	Infection control manual. Available on BUE official E learning.
B- Essential Books (Textbooks):	Miller and Palenik, Infection Control. Mosby, 2005, 4th. Edition.

Dental Professional Ethics

Semester Two

Module Code: DPETC04	**Title:** Dental Professional Ethics
Credits: 1	
Prerequisite modules: None	
Reassessment: *Re-exam in August*	
Internal examiner: A.Prof. Mahmoud Al Ankily	
Academic Year taught: Semester Two 3rd Year	
Key words: Patients' Rights, Legal Authorities	
Date of latest revision: September 2021	

Aims

The course provides the dental student with an introduction to the basic knowledge of theories of ethics, various models of decision making and major contemporary health care issues and dilemmas facing dental practitioners. Legal aspects of health care and State Dental Act Regulations will be studied.

Intended Learning outcomes

Upon completing this course, students will be able to:

Knowledge and understanding

- Have a basic understanding about ethics and how they apply to dental practice.
- Understand the legal aspects of practicing dentistry.

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- Understand the practical and ethical considerations that should be taken into account when seeking patients' consent.
- Be competent at maintaining full, accurate clinical records.
- Have knowledge of responsibilities of consent, duty of care and confidentiality.
- Have knowledge of patients' rights.
- Be fully cognizant with the obligation to practice in the best interests of the patient at all times.
- Have knowledge of the regulatory functions of the Egyptian Dental Syndicate.
- Understand the legal and ethical obligations of dentists registered with the Egyptian Dental Syndicate.

Intellectual Skills:

- Apply ethical principles in daily dental practice.
- Communicate with legal authorities and personnel.

Key/transferable skills

- Work effectively in a team

Content

Topics
Introduction to the theories of ethics.
Decision making.
Major contemporary health care issues.
Legal aspects of dentistry.
State Dental Act Regulations.
Syndicate Regulations of Practice of Dentistry in Egypt.
State Act Regulating Dental Laboratories.
State Act Regulating Dental Internship.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.

Reference Text

Author	Date	Title	Publisher
David T. Ozar, David J. Sokol	2002	Dental Ethics at Chairside: Professional Principles and Practical Applications	Georgetown University Press
State Dental Act	1983	Law No 13 for 1983 Regarding Medical Professions Syndicates	Egyptian Dental Syndicate
Syndicate Regulations of Practice of Dentistry in Egypt	1969	Rules and Regulations for Practicing Dentistry in Egypt.	Egyptian Dental Syndicate

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Conservative Dentistry Clinical I

Semester One

Module Code: CONSI01	**Title:** Conservative Dentistry Clinical I
Credits: 2	
Prerequisite modules: Dental Materials, Operative Dentistry Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester One 4th Year	
Key words: Amalgam, Resin Composite, Filling, Cavity Preparation, Caries	
Date of latest revision: September 2021	

Aims

This course is a clinical course of operative dentistry. It 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. It is designed to give an in depth understanding and focusing on fundamentals of diagnosis, treatment planning and comprehensive restorative

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management of dental diseases. Along with the application of recent methods of prevention and treatment using direct and indirect restorative dental treatment.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Identify different chair and operating positions and their importance during the procedural sessions.
- Describe different examination methods used in diagnosis of hard tooth structures and restorations' defects.
- Explain how to design an appropriate treatment plan with proper sequencing of treatment according to priorities according to evidence based dentistry.
- Explain reasons and methods of controlling the fluids in the oral cavity with regards to infection control.
- Explain different theories of dental caries.
- Define the etiology, histology and clinical features of dental caries and its reaction with the dentin-pulp complex.
- Discuss caries risk assessment and how to manage dental caries.

Subject-specific cognitive skills

- Choose the appropriate methods for moisture control and control of pain during operative procedures.
- Select the appropriate method for management of dental caries.
- Correlate between general principles of cavity preparation and the biologic and mechanical perspectives to manage different cases.
- Correlate the information gained across the course program with the problem solving in different clinical situations.
- Judge different problems associated with existing restorations to figure out the reason and the possible solutions for them.

Subject-specific practical skills

- Demonstrate patient reception, dismissal and operating positions to provide maximum accommodation and comfortable environment for excellence of performance.
- Use appropriate clinical equipments and diagnostic tools to reach correct diagnosis and construct an optimal treatment plan of carious and non-carious defects for different groups of patients.
- Apply a comprehensive program for caries prevention.
- Judge the teeth defects and perform high standard dental restorations.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis.
- Work coherently as a part of a team in clinical projects.
- Demonstrate appropriate professional attitudes and behaviour in dealing with staff members and helping personnel.

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Content

Topics
Patient reception, operating positions. And field preparation.
Patient examination, assessment, diagnosis and treatment planning.
Sterilization and infection control in the dental clinic.
Moisture control of the operative field.
Dental cariology.
Posterior composite manipulation
Anterior composite manipulation

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Contemporary Clinical Practice, Vol. I	Quintessence Publishing
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Challenges of the future, Vol. II	Quintessence Publishing
George A. Freedman	Latest edition	Contemporary Esthetic Dentistry	Elsevier Mosby
Jordi Manauta, Anna Salat	Latest edition	Layers: An Atlas of composite Resin Stratification	Quintessence Publishing

Conservative Dentistry Clinical II

Semester Two

Module Title: CONSI02	**Title:** Conservative Dentistry Clinical II
Credits: 2	
Prerequisite modules: Dental Materials, Operative Dentistry Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester Two 4th Year	
Key words: Amalgam, Resin Composite, Filling, Cavity Preparation, Caries	
Date of latest revision: September 2021	

Aims

This course is a clinical course of operative dentistry. It 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. It is designed to give an in depth understanding and focusing on fundamentals of diagnosis, treatment planning and comprehensive restorative

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management of dental diseases. Along with the application of recent methods of prevention and treatment using direct and indirect restorative dental treatment.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Recognize the biological influences of restorative procedures and materials on vital tooth tissues.
- Select the most suitable restorative material.
- Describe different strategies in management of deep caries.
- Identify post-operative pain & hypersensitivity and its etiological factors, diagnosis & clinical manifestations.
- Describe requirements and factors affecting selection of restorative materials.
- Explain the microleakage phenomena and describe its causes and ways for prevention.

Subject-specific cognitive skills

- Correlate between general principles of cavity preparation and the biologic and mechanical perspectives to manage different cases.
- Correlate the information gained across the course program with the problem solving in different clinical situations
- Judge different problems associated with existing restorations to figure out the reason and the possible solutions for them.
- Select the most suitable restorative material.

Subject-specific practical skills

- Demonstrate patient reception, dismissal and operating positions to provide maximum accommodation and comfortable environment for excellence of performance.
- Use appropriate clinical equipments and diagnostic tools to reach correct diagnosis and construct an optimal treatment plan of carious and non-carious defects for different groups of patients.
- Apply a comprehensive program for caries prevention.
- Judge the teeth defects and perform high standard dental restorations.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis.
- Work coherently as a part of a team in clinical projects.
- Demonstrate appropriate professional attitudes and behaviour in dealing with staff members and helping personnel.

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Content

Topics
Management of deep caries.
Selection of Restorative material.
Biological considerations in operative dentistry.
Postoperative pain and hypersensitivity.
Microleakage.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Contemporary Clinical Practice, Vol. I	Quintessence Publishing
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Challenges of the future, Vol. II	Quintessence Publishing

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Fixed Prosthodontics Clinical I

Semester One

Module Code: FPROI01	**Title:** Fixed Prosthodontics Clinical I
Credits: 2	
Prerequisite modules: Dental Materials, Crown & Bridge Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Ahmed Kouedi	
Academic Year taught: Semester One 4th Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Review and evaluate the principles necessary to provide patients with fixed prosthodontics.

Subject-specific cognitive skills

- Manage appropriate professional skills.

Subject-specific practical skills

- Fabricate simple fixed partial prosthodontics for patients.

Key/transferable skills

- Formulate and execute a treatment plan for patients with simple fixed restoration needs.

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Content

Topics
Diagnosis and treatment planning for fixed prosthodontics.
Treatment of Endo treated teeth
Pontics.
The science of colour.
Connectors.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

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Fixed Prosth Clinical II

Semester Two

Module Code: FPROI02	**Title:** Fixed Prosth Clinical II
Credits: 2	
Prerequisite modules: Dental Materials, Crown & Bridge Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Prof. Ahmed Kouedi	
Academic Year taught: Semester Two 4th Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	

Aims

The course is continuous over the year. The course allows interaction between the dental student and the professional dental laboratory technician. The course also presents more advanced techniques in treatment.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Critically examine and evaluate the role of fixed prostheses in the management of patients

Subject-specific cognitive skills

- Communicate with dental laboratory technicians.
- Provide advanced care to patients with fixed Restoration needs.

Subject-specific practical skills

- Fabricate different fixed partial prosthodontics restorations for patients.
- Manipulate different Impression materials.

Key/transferable skills

- Provide advanced care to patients with fixed Restoration needs.

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Content

Topics
Bridge design.
Retainers
Biological Considerations
Repair
Periodontal Considerations
Removal

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

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Removable Prosthodontics Clinical I

Module Code: Removable Prosthodontics Clinical I	**Title:** RPROI01
Credits: 3	
Prerequisite modules: Dental Materials, Removable Prosthodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester One 4th year	
Key words: Complete Denture	
Date of latest revision: September 2021	

Aims

This course is the first clinical course in removable prosthodontics. The 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 denture prosthodontics. The course includes detailed step by step of the clinical procedures including impression making, jaw relation and the sequence of procedures involved in the provision of removable complete denture as well as after care and management of geriatric patients.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Review and evaluate the principles necessary to provide patients with removable complete denture.
- Critically appraise the principles of diagnosing, treatment planning, and execution of treatment for completely edentulous patients.
- Develop the ability to formulate and execute a treatment plan for patients with complete prosthodontic needs.
- Understand didactically clinical steps for complete denture construction.
- Develop the ability to manage geriatric patients.

Subject-specific cognitive skills

- Develop the ability to formulate and execute a treatment plan for completely edentulous and geriatric patients.
- Develop the ability to perform all clinical steps needed for complete denture construction.

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Subject-specific practical skills

- Fabricate complete dentures for patients.
- Manipulate different impression materials and take impressions for removable prosthodontics.
- Record jaw relation for completely edentulous and geriatric patients.
- Perform complete denture delivery and after care for completely edentulous and geriatric patients.
- Undertake mouth preparation prior to provision of removable prostheses.

Key/transferable skills

- Manage patient with appropriate professional development skills.
- Communicate with dental laboratory technicians.

Content

Topics
Diagnosis and treatment planning for complete removable prosthodontics.
Impression making for complete dentures.
Recording jaw relationship.
Face bow record and mounting on an articulator.
Setting of teeth and occlusion.
Denture delivery and after care.
Management of geriatric patients.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
George A. Zarb, Charles L. Bolender, Gunnar E. Carlsson, Carl O. Boucher	Latest Edition	Boucher's Prosthodontic Treatment for Edentulous Patient	C.V. Mosby

Removable Prosthodontics Clinical II

Module Code: Removable Prosthodontics Clinical II	**Title:** RPROI02
Credits: 3	
Prerequisite modules: Dental Materials, Removable Prosthodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester Two 4th Year	
Key words: Partial Denture	
Date of latest revision: September 2021	

Aims

The 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 partial denture prosthodontics. The course includes detailed step by step of the clinical procedures including impression making, jaw relation and the sequence of procedures involved in the provision of removable partial dentures as well as after care. Special attention will be given to principles of design of partial denture and the problems that may be met with different classes.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Review and evaluate the principles necessary to provide patients with removable prosthodontics.
- Critically appraise the principles of diagnosing, treatment planning, and execution of treatment for partially edentulous patients
- Understand principles of partial denture design and problems of each class.

Subject-specific cognitive skills

- Develop the ability to formulate and execute a treatment plan for patients with partial removable prosthodontic needs.

- Develop the ability to perform all clinical steps needed for partial denture construction.

Subject-specific practical skills

- Design different types of partial dentures.
- Fabricate partial dentures for patients.
- Manipulate different impression materials and take impressions for removable prosthodontics.
- Record different jaw relation records for all partially edentulous cases.
- Undertake mouth preparation prior to provision of removable prostheses.
- Perform partial denture insertion, maintenance and after care.

Key/transferable skills

- Manage patient with appropriate professional development skills.
- Communicate with dental laboratory technicians.

Content

Topics
Mouth preparation for receiving partial dentures.
Impression making for partial dentures and altered cast technique.
Partial denture jaw relation records.
Partial denture insertion and after care.
Problems and principles of design in partial dentures.
Repair and relining.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

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Author	Date	Title	Publisher
Rodney D. Phoenix, David R. Cagna, Charles F. Defreest, Kenneth L.	Latest Edition	Stewart's Clinical Removable Partial Prosthetics	Quintessence Publishing
Alan B. Carr, Glen P. McGivney, David T. Brown	Latest Edition	McCracken's Removable Partial Prosthodontics	Mosby-Year Book

Orthodontics I

Semester One

Module Code: ORTHI01	**Title:** Orthodontics I
Credits: 3	
Prerequisite modules: Oral Biology	
Reassessment: Re-sit exam in August	
Internal examiner: Professor Islam Hassan	
Semester taught: Semester One 4th Year	
Key words: Occlusion, Malocclusion,	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Show a deep understanding of the keys of the normal occlusion.
- Understand and evaluate the Mal-Occlusion and Classify them Properly.

Subject-specific cognitive skills

- Understand the appropriate Etiological Factors of the Mal-occlusion
- Know How to differentiate between Normal, Abnormal Occlusion and Growth Patterns

Subject-specific practical skills

- Produce a Professional Digital Radiographs to an orthodontic Patient.
- Fabricate Orthodontic model with a Well-Trimmed Base.
- Acquire and enhance the skills of Wire bending and fabrication of some appliances.

Key/transferable skills

- Fabricate simple orthodontic appliances.

Content

Topics
Introduction to development and growth of the face and jaws.
Development of normal occlusion.
Classification of normal occlusion
Terminology and Classification of Malocclusion
Etiologic factors of malocclusion.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
William R. Proffit, Henry W. Fields	Latest Edition	Contemporary Orthodontics	C.V. Mosby
Robert E Moyers	Latest Edition	Handbook of Orthodontics for the Student and General Practitioner	Year Book Medical Publishers

Orthodontics II

Semester Two

Module Code: ORTHI02	**Title:** Orthodontics II
Credits: 3	
Prerequisite modules: Oral Biology	
Reassessment: Re-sit exam in August	
Internal examiner: Professor Islam Hassan	
Semester taught: Semester Two 4th Year	
Key words: Occlusion, Malocclusion,	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

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Knowledge and understanding

- Understand and evaluate the role of orthodontics in overall patient care.
- Show a deep understanding of the basics of the orthodontic diagnosis

Subject-specific cognitive skills

- Understand the appropriate timing of interventions and what they are likely to be.

- Know when and which cases to refer to specialist advice and care.

Subject-specific practical skills

- Diagnose and Trace a Lateral Cephalometric Radiograph
- Fabricate simple orthodontic appliances and manage simple orthodontic cases
- Acquire and enhance the skills and manual dexterity needed to manage orthodontic cases.

Key/transferable skills

- Fabricate simple orthodontic appliances.

Content

Topics
Orthodontic diagnosis.
Orthodontic appliances
Anchorage in orthodontics
Principles of tooth movement.
Preventive , Interceptive and Corrective Orthodontics
Orthodontic Retention and relapse.
Sequelae of untreated Malocclusion
Extraction
Recent in Orthodontics

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
William R. Proffit, Henry W. Fields	Latest Edition	Contemporary Orthodontics	C.V. Mosby
Robert E Moyers	Latest Edition	Handbook of Orthodontics for the Student and General Practitioner	Year Book Medical Publishers

Endodontic Clinical I

Semester One

Module Code: ENDO101	**Title:** Endodontic Clinical I
Credits: 2	
Prerequisite modules: Endodontic Pre-Clinical I	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Medhat Kataia	
Academic Year taught: Semester One 4th year	
Key words: Isolation, Pain, Emergency, Vital pulp therapy	
Date of latest revision: September 2021	

Aims

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 includes the clinical 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe advantages, disadvantages, different components with their functions and techniques of rubber dam tooth isolation.
- Recognise and select the appropriate case for root canal treatment
- List the factors that affect case selection
- Describe the difference, advantages and disadvantages of single visit and multiple visit endodontic treatment
- Recognise endodontic emergency cases and their methods of management
- Describe the role of radiography in Endodontics and its techniques
- Interpret and apply the different techniques of radiographic technology in the endodontic procedure
- List pain pathway anatomy and types of pain

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- Discuss different techniques to control endodontic pain
- Describe when to use supplemental methods of obtaining pulpal anesthesia (intraosseous, periodontal, and intrapulpal) if standard block or or infiltration fails
- Discuss the different techniques of dental tissue regeneration
- Identify the appropriate case for regenerative endodontics
- Discuss the indications, contraindications and different types of vital pulp therapy
- List the materials for vital pulp therapy along with their advantages and disadvantages.
- Identify the different types of drugs used for management of anxiety, pain and infection including its principle action, side effect, dose and duration.
- Identify the patients who need prophylactic antibiotics and recognise when prescribe the regimen of Antibiotic Prophylaxis according to AHA (American Heart Association)

Subject-specific cognitive skills

- Choose the best isolation technique for each case
- Correlate between diagnostic measures and the course of treatment selected
- Correlate between the information they know & choosing case management protocol.
- Interpret straight on and angled working radiographs.
- Organize analgesics based on severity of pain and patient characteristics and Prescribe (choose) antibiotics based on the need for antibiotic (as treatment and prophylaxis) and patient medical history.

Subject-specific practical skills

- Perform adequate subjective and objective examination for the identification of pulp and periradicular diseases and in the selection of cases suitable for endodontic treatment.
- Choose the appropriate clamp for anterior, premolar, and molar teeth and properly and apply the clamp/ rubber dam.
- Perform adequate isolation for endodontic treatment
- Perform root canal treatment clinically, arrange and employ the appropriate instruments and techniques and techniques and manage some procedural errors during root canal treatment if correctable.
- Interpret the preoperative. Working length determination, master cone and postoperative periapical x ray films.
- Manage emergency cases and practice supplemental anesthesia techniques in emergency cases for control of pain.
- Apply the infection control procedures and protocol needed when dealing with any clinical work.

Key/transferable skills

- Competent at communication with patient, other member of the dental team and other health professionals.
- Be familiar with the social and psychological issues relevant to the care of patients.
- Develop positive behavioural management for anxiety during clinical work.

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- Consider the hazards of ionizing radiation and related regulations (radiation protection and dose reduction).
- Perform the quality assurance principles in practice and informational management.

Content

1	Isolation in endodontics
2	Case selection and treatment planning
3	Single versus multiple visits endodontics
4	Single visit endodontics
5	Emergency in endodontics
6	Radiology in Endodontics
7	Regenerative endodontic &VPT
8	Therapeutics
9	Pain pathway and control

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Lab to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stephen Cohen; Richard C. Burns	Latest Edition	Pathways of the Pulp	C.V. Mosby
John I. Ingle; Leif K. Backland	Latest Edition	Endodontics	Decker Inc.

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Oral Surgery & Anaesthesia I

Semester One

Module Code: OSURI01	**Title:** Oral Surgery & Anaesthesia I
Credits: 3	
Prerequisite modules: Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Tarek Abbas Hassan	
Academic Year taught: Semester One 4th Year	
Key words: Extraction, Fracture, Enucleation, Cyst, Tumour	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand and critically appraise the role of the oral surgeon in the management of patients with maxillofacial surgical problems.
- Evaluate and formulate treatment plans for patients with complex surgical needs.
- Have knowledge of the principles of sterilization, disinfection and asepsis.

Subject-specific cognitive skills

- Evaluate all treatment outcomes, including the unexpected, and undertake remedial action where appropriate.

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Subject-specific practical skills

- Administer local anaesthesia in all areas of the oral cavity and manage potential complications relating to its use.
- Perform difficult extractions of teeth.
- Treat dental infections.

Key/transferable skills

- Assess patients for and inform patients or their guardians of the indications, contraindications, limitations, risks and benefits of conscious sedation and general anaesthesia.
- Administer first aid treatment to patients suffering from trauma.
- Diagnose different oral lesions and refer them to the specialist concerned.

Content

Topics
Diagnosis and treatment planning in oral surgery.
Aseptic techniques.
Sterilization and hygienic procedures.
Preparation of the surgical field.
Principles of local anaesthesia, drugs, solutions, techniques, complications and their management.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Stanley F. Malamed	Latest Edition	Handbook of Local Anesthesia	C.V. Mosby
Edward Ellis, James Hupp, Myron Tucker, Larry Peterson	Latest Edition	Contemporary Oral and Maxillofacial Surgery	C.V. Mosby
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Bennett Rosenberg	Latest Edition	Medical Emergencies in Dentistry	W.B. Saunders

Oral Surgery & Anaesthesia II

Semester Two

Module Code: OSURI02	**Title:** Oral Surgery & Anaesthesia II
Credits: 3	
Prerequisite modules: Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Tarek Abbas Hassan	
Academic Year taught: Semester Two 4th Year	
Key words: Extraction, Fracture, Enucleation, Cyst, Tumour	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand and critically appraise the role of the oral surgeon in the management of patients with maxillofacial surgical problems.
- Evaluate and formulate treatment plans for patients with complex surgical needs.
- Have knowledge of the principles of sterilization, disinfection and asepsis.

Subject-specific cognitive skills

- Evaluate all treatment outcomes, including the unexpected, and undertake remedial action where appropriate.

Subject-specific practical skills

- Administer local anaesthesia in all areas of the oral cavity and manage potential complications relating to its use.
- Perform difficult extractions of teeth.
- Treat dental infections.

Key/transferable skills

- Assess patients for and inform patients or their guardians of the indications, contraindications, limitations, risks and benefits of conscious sedation and general anaesthesia.
- Administer first aid treatment to patients suffering from trauma.
- Diagnose different oral lesions and refer them to the specialist concerned.

Content

Topics
Principles of tooth extraction and minor surgical procedures.
Treatment planning for diseases of the oral cavity and related structures.
Patient assessment and pre-anaesthetic preparation.
Management of the hospitalized patient and the medically compromised patient.



Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments 30%

and/or Oral Exam)	
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stanley F. Malamed	Latest Edition	Handbook of Local Anesthesia	C.V. Mosby
Edward Ellis, James Hupp, Myron Tucker, Larry Peterson	Latest Edition	Contemporary Oral and Maxillofacial Surgery	C.V. Mosby
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Bennett Rosenberg	Latest Edition	Medical Emergencies in Dentistry	W.B. Saunders

Oral Medicine & Diagnosis I

Semester One

Module Code: OMEDI01	**Title:** Oral Medicine & Diagnosis I
Credits: 4	
Prerequisite modules: Oral Biology, Oral Pathology	
Reassessment: *Re-exam in August*	
Module leader: Professor Mouchira Salah El Din	
Key words: Immunity, Bleeding, Allergy, Pain, Diagnosis	
Academic Year taught: Semester One 4th year	
Date of latest revision: September 2021	

Oral Medicine

Aims

The course aims at providing students with specific knowledge about:

- The fundamentals of basic immunology
- Oral manifestations and dental management of the most encountered allergic conditions
- Oral manifestations and dental management of various bleeding and clotting disorders
- Oral manifestations and dental management of various red blood cells disorders

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- Oral manifestations and dental management of various white blood cells disorders

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge & understanding

- Understand the basic principle of immunology.
- Outline the key components of the innate and adaptive immune responses.
- Describe which cell types and organs are involved in an immune response.
- Understand how to deal with patients with allergic disorders
- Understand how to deal with patients with blood disorders
- Have a sound understanding of the prevention and management of hypersensitivity reaction emergencies in the dental clinic.

Intellectual Skills

- Explain how the immune system recognizes foreign antigen
- Explain the significance of self/non-self discrimination.
- Differentiate between different blood disorders and allergic conditions.

Practical and Professional Skills

- Install appropriate precautions and/or premedications for patients with medical problems in dental clinic
- Prevent & manage medical emergencies in the dental clinic.

General and Transferable Skills

- Never treat a patient without interrogating about his medical condition.
- Acquire the habit of searching the patient for any sign of systemic disease

Content:

Topics
Basic immunology
Oral manifestations & dental management of allergic conditions
Oral manifestations & dental management of bleeding and clotting disorder
Oral manifestations & dental management of red blood cells disorder
Oral manifestations & dental management of white blood cells disorder

Teaching /learning strategies

- Lectures to explain underlying principles. These lectures include power point presentations, animations, white board classic explanations, discussions, seminars, critical reviewing, interaction, students' search and presentations.
- Tutorials to help understanding these principles
- Clinic to apply those principles

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Reading List

Author	Date	Title	Publisher
Greenberg MS, Glick M	2008	Burkit's Oral Medicine 11thEd	BC Decker Inc
Cawson RA & Odell EW	2002	Cawson's essentials of oral pathology & oral medicine 7th Ed	Butterworth-Heinemann
Scully C.	2013	Oral and Maxillofacial Medicine: The Basis of Diagnosis and Treatment	Churchill Livingstone
Bricker S, Langlais R, Miller C	2002	Oral Diagnosis, Oral Medicine and Treatment Planning	Oxford
Laskaris G,	2005	Color Atlas of Oral Diseases 3rd Ed	Naklada Slap, Jastrebarsko

Oral Diagnosis

Aims

The course aims at providing students with specific knowledge about:

- How to gather information from patients & make deductions
- The careful evaluation of patient's chief complaint
- Proper understanding of the importance of discovering diagnosed & undiagnosed medical conditions among patients attending the dental clinics
- How to perform a physical examination that includes both extra- & intra-oral structures
- The ability to recognize disease states & abnormalities in order to reach final diagnosis of oral conditions
- Understanding the value & use of certain lab investigations in dental practice & identifying findings

Intended Learning Outcomes

Upon completing this course, students will be able to:

Knowledge & understanding

- Define different types of oral diagnosis.
- Identify different types of questions used during patient interview.
- Obtain & record a detailed history of different chief complaints
- Recognize different causes of orofacial pain
- Obtain & record a detailed dental history
- Recognize patients with medical problems
- Identify different techniques of clinical examination
- Identify normal intraoral and extra oral features
- Recognize abnormal extra oral features
- Recognize variation from normal features
- Identify findings of lab investigations of importance in dental practice.

Intellectual Skills

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- Identify, prioritize and generate a list of potential patient's clinical problems.
- Differentiate between normal and abnormal features that are particularly relevant to dental practice.
- Analyze, interpret, and integrate collected diagnostic data to solve clinical problems based on current evidence.
- Use intellectual thinking to correlate Laboratory investigations with different systemic diseases

Practical and Professional Skills

- Extract information out of the patient
- Establish a comprehensive patient's history
- Extract full information regarding patient's chief complaint
- Review the body systems and consult with other health care professionals, when required.
- Carry out systematic clinical examination including both extra- & intra-oral structures
- Apply the rules of differential diagnosis to reach final diagnosis
- Analyze all the available data before running to conclusions
- Elaborate a problem list according to the clinical findings
- Outline a treatment plan according to the patient's needs
- Evaluate the case prognosis ahead of treatment planning
- Request and evaluate appropriate investigations.
- Functionalize & interpret lab investigation.

General and Transferable Skills

- Be good listeners to the patients' history
- Build up a friendly dentist – patient relationship
- Manage each patient according to his personality

Content:

Topics
The diagnostic method
Patient's history
Patient's chief complaint (C/C)
Discovering medically complex patients
Methods of clinical examination
Extra-oral examination
Intra-oral examination
Laboratory investigations required in dental practice

Methods of Teaching & Learning

- Lectures to explain underlying principles. These lectures include power point presentations, animations, white board classic explanations, discussions, seminars, critical reviewing, interaction, students' search and presentations.
- Tutorials to help understanding these principles
- Clinic to apply those principles

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reference Text

Author	Date	Title	Publisher
Newland R, Meiller T, Wynn R, Crossley H	2010	Oral Soft Tissue Diseases: A Reference Manual for Diagnosis and Management	Lexi-Comp's
Ronald SB.	2009	Clinicians Guide to the Diagnosis and Treatment of Chronic Orofacial	American Academy of Oral Medicin
Scully C.	2013	Oral and Maxillofacial Medicine: The Basis of Diagnosis and Treatment	Churchill Livingstone
Laskaris G,	2005	Color Atlas of Oral Diseases 3rd Ed	Naklada Slap, Jastrebarsko

Oral Medicine & Diagnosis II

Semester Two

Module Code: OMEDI02	**Title:** Oral Medicine & Diagnosis II
Credits: 4	
Prerequisite modules: Oral Biology, Oral Pathology	
Reassessment: *Re-exam in August*	
Module leader: Professor Mouchira Salah El Din	
Key words: Ulcer, Lesions, Pain, Cancer	
Academic Year taught: Semester Two 4th year	
Date of latest revision: September 2021	

Oral Medicine

Aims

The course aims at providing students with specific knowledge about:

- The clinical picture, complications & management of the most common oral mucosal lesions
- The differentiation of oral mucosal lesions into ulcerative, white, red, white & red or pigmented (whether melanotic or non-melanotic)
- The differential diagnosis of oral mucosal lesions.
- The clinical picture, diagnosis & management of the most common types of oral cancer.
- Recent advances in methods used for early detection of oral cancer
- The most important causes of orofacial pain other than that of dental origin & which can be misdiagnosed as dental pain
- The most important causes of oral malodor (halitosis) whether intra- or extra-oral and the management of each.
- The occupational hazards in the dental clinic due to improper manipulation of materials or equipment, improper posture, inadequate infection control
- The complications related to cancer patients and their management

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge & understanding

- Categorize oral mucosal lesions according to their clinical presentation (ulcers, white lesions……etc)
- Differentiate between primary oral lesions & those secondary to systemic disease
- Realize the possible complications of oral lesions
- Recognize his role in preventing these complications
- Know which oral lesions he can treat & when should he refer the case to a certain specialist
- Identify causes of orofacial pain
- Identify different treatment modalities of orofacial pain
- Identify intra- & extra-oral causes of halitosis
- Recognize the potential occupational hazards to which dentists are exposed & how they can be avoided
- Recognize the complications related to cancer patients and their management
- Have a sound understanding of the recent advances in early detection of oral cancer

Intellectual Skills

- Use communication skills efficiently to develop a mature, sensitive and caring relationship with their patients.
- Analyze, interpret, and integrate collected data to accurately diagnose clinical cases based on current evidence.
- Reason deductively in clinical problem solving.

Practical and Professional Skills

- Apply the rules of differential diagnosis to any oral mucosal lesion to reach final diagnosis

- Make use of the available lab investigations to discover the nature of oral mucosal lesions
- Detect oral cancer in early stages
- Treat simple oral lesions
- Manage patients complaining of pain
- Manage patients complaining of halitosis
- Manage cancer patients

General and Transferable Skills

- Never ignore any oral lesion however innocent looking.
- Never treat a patient without interrogating about his medical condition.
- Apply the various working precautions to avoid occupational hazards whether postural, infective, psychological, ...etc

Content:

Topics
Oral ulcers
White and red lesions
Orofacial pigmented lesions
Oral Cancer
Early Detection of oral cancer
Oral manifestations & dental management of autoimmune disease
Oral manifestations & dental management of CNS disease
Oral manifestations & dental management of neuromuscular disease
Oral malodor
Occupational hazards of dentistry
Management of cancer patient

Methods of Teaching & Learning

Lectures to explain underlying principles. These lectures include power point presentations, animations, white board classic explanations, discussions, seminars, critical reviewing, interaction, students' search and presentations.
Tutorials to help understanding these principles
Clinic to apply those principles



Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reference Text

Author	Date	Title	Publisher
Greenberg MS, Glick M	2008	Burkit's Oral Medicine 11thEd	BC Decker Inc
Cawson RA & Odell EW	2002	Cawson's essentials of oral pathology & oral medicine 7th Ed	Butterworth-Heinemann
Scully C.	2013	Oral and Maxillofacial Medicine: The Basis of Diagnosis and Treatment	Churchill Livingstone
Bricker S, Langlais R, Miller C	2002	Oral Diagnosis, Oral Medicine and Treatment Planning	Oxford
Laskaris G,	2005	Color Atlas of Oral Diseases 3rd Ed	Naklada Slap, Jastrebarsko

Dental Public Health

Semester Two

Module Code: DPUBHI02	**Title:** Dental Public Health
Credits: 2	
Prerequisite modules: Conservative Dentistry Preclinical , Endodontics	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Noha Kabil	
Academic Year taught: Semester Two 4th Year	
Key words: Dental Public Health, Oral Health Education, Epidemiology, Planning, Quality of life, Social Determinants.	
Date of latest revision: September 2021	

Aims

This course provides the student with leadership and expertise in population-based dentistry, oral health surveillance, community-based disease prevention and health promotion as well as maintenance of the dental safety for the community and population. Dental Public health is a non-clinical speciality of dentistry. It is concerned with oral health education and assessment of oral health needs of the public, implementation of oral health programs for groups as well as prevention and control of oral disease on community bases.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Draw principles, aims and objectives of oral health education and methods of communication.
- Identify goals and components of epidemiology as well as types of epidemiological studies.
- State different types of sampling and surveys
- Recognize the epidemiology of dental caries and periodontal disease.
- Describe different indices used for dental caries and periodontal diseases
- Recognize the ethics of the patient-dentist relations, colleague's relations, dental manpower as well as delegation of duties and financial arrangements.
- Outline the effect of oral health on the patient's quality of life.

Subject-specific cognitive skills

- Investigate primary teeth and the morphological variations between the primary and the permanent teeth
- Detect different indices used for primary, mixed and permanent dentition and methods of their calculation.
- Evaluate the population's needs and demands through surveys.
- Formulate age appropriate dental health educational programmes for children
- Produce treatment plan in accordance with evidence-based dentistry concepts
- Categorize patients into different groups according to the social determinants of health and sketch appropriate oral health educational programmes.

Subject-specific practical skills

- Implement oral health educational programme for school children
- Criticize the oral health educational health programme.

Key/transferable skills

- Follow scientific & ethical guidelines in Dentistry
- Use the information technology as a mean of communication, for data collection, analysis and professional development.

Content:

Topics
Concepts and philosophy of dental public health and epidemiology
Predicting risk factors of oral disease and introduction to Indices

Epidemiology and indices of dental caries
Epidemiology and indices of periodontal disease
Basic Epidemiology
Sampling and surveys.
Oral health education , motivational interviewing ,team work & dental manpower
Planning for community dental health program and engaging in community service.
Oral health literacy , Dental needs and demands
Ethics in dental public dentistry and dental malpractice
Oral health quality of life.
Social determinants of public health and behavioural science
Introduction to Evidence based dentistry.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs and clinics to apply those principles practically as well as surveys and research plans.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
S.S.Hiremath	3rd Edition	Textbook of Public Health Dentistry	ElSevier
Jill Mason ,MPH	2nd Edition	Concepts in dental Public health	Lippincott Williams &Wilkins
CM Marya	1st Edition	A Textbook Of Public Health Dentistry	JP Medical

Geriatrics & Special Health Care

Semester Two

Module Code: GSHCI02	**Title:** Geriatrics & Special Health Care
Credits: 1	
Prerequisite modules: General Medicine , General Surgery, Removable Prosthodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk and Professor Amr Amin	
Academic Year taught: Semester Two 4th Year	
Key words: Aging, Elderly Population, Special Needs	
Date of latest revision: September 2021	

Aims

This course is designed to introduce the students to the biology of the aging process and how it affects oral health. In addition, the management of patients needing special health care and age related changes of the elderly population, including soft tissue and hard tissue changes will be discussed. Furthermore, psychological aspects of aging and age related systemic changes related to the elderly population will be covered. Students will be introduced to the proper management of patients needing special health care and older adults including restorative, periodontal, surgical, endodontic and other treatment modalities, as well as preventive dentistry.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the biology of the aging process and the age-related changes and their dental implications.
- Understand daily activities and nutrition of the elderly individuals and patients needing special health care.
- Be aware of psychological aspects of aging including dementia, depression, etc.
- Have Knowledge on medical conditions and related medications in geriatric patients and patients needing special health care.
- Understand various dental treatment modalities; applications and limitations.
- Understand treatment planning and treatment modality options for elderly patients and patients needing special health care including restorative, periodontal, surgical, prosthodontics and endodontic managements.

Subject-specific cognitive skills

- Have Knowledge on surgery for geriatric patients and patients needing special health care. .
- Have Knowledge on prosthodontic and conservative consideration in geriatric patients and patients needing special health care.
- Have Knowledge on implants in geriatric patients and patients needing special health care.
- Manage preventive dental care in geriatric patients and patients needing special health care.

Key/transferable skills

- Develop self-management and patient management for elderly patients and patients needing special health care.

Content

Topics
Diagnosis and treatment plan
Different prosthetics options
Implants
Conservative Dentistry
Surgical management of geriatrics and special health care patients

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
David W. Bartlett, Nigel F. Fisher	Latest Edition	Clinical Problem Solving in Prosthodontics	Churchill Livingstone
George A. Zarb, Charles L. Bolender, Gunnar E. Carlsson, Carl O. Boucher	Latest Edition	Boucher's Prosthodontic Treatment for Edentulous Patient	C.V. Mosby
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Bennett Rosenberg	Latest Edition	Medical Emergencies in Dentistry	W.B. Saunders

Conservative Dentistry Clinical III

Semester One

Module Code: CONSH01	**Title:** Conservative Dentistry Clinical III
Credits: 2	
Prerequisite modules: Dental Materials, Conservative Dentistry Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester One 5th Year	
Key words: Resin Composite, Filling, Cavity Preparation, Caries, Aesthetics, Bonding	
Date of latest revision: September 2021	

Aims

This course is a clinical course of operative dentistry. It is continuous over the fourth and fifth years. It is designed to give an in depth understanding and focusing on fundamentals of diagnosis, treatment planning and comprehensive restorative management of dental diseases. Along with the application of recent methods of prevention and treatment using direct and indirect restorative dental treatment. This 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Discuss the recent concepts and trends introduced to the profession and reasons behind these changes according to evidence based dentistry.
- Explain the basic parameters and advances of aesthetics in restorative dentistry.
- Describe the outline of understanding how to perfectly manage aesthetic dental complains.
- Describe different lines of treatment of non-carious tooth defects.
- Identify the principles and essentials needed to achieve the conservative approach.

Subject-specific cognitive skills

- Choose the appropriate methods for diagnosis and treatment of dental caries conservatively.
- Correlate between general principles of cavity preparation and the biologic and mechanical perspectives to manage different cases.
- Integrate and link the information gained across the course program with the problem solving in different clinical situations.
- Analyze all the dental aesthetic problems and find a proper treatment for each problem.
- Differentiate between different non-carious tooth defects and choose the proper line of treatment.

Subject-specific practical skills

- Demonstrate patient reception, dismissal and operating positions to provide maximum accommodation and comfortable environment for excellence of performance.
- Use appropriate clinical equipment's and diagnostic tools to reach correct diagnosis and construct an optimal treatment plan of carious and non carious defects for different groups of patients.
- Apply a comprehensive program for correction of esthetic defects.
- Judge the teeth defects and perform high standard dental restorations.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis
- Participate in team working and leadership activities.
- Demonstrate appropriate professional attitudes and behavior in dealing with staff members and helping personnel.

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Content

Topics
Conservative approach in restorative dentistry.
Aesthetic considerations in restorative dentistry.
Management of non-carious lesions.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

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Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Contemporary Clinical Practice, Vol. I	Quintessence Publishing
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Challenges of the future, Vol. II	Quintessence Publishing
George A. Freedman	Latest edition	Contemporary Esthetic Dentistry	Elsevier Mosby
Jordi Manauta, Anna Salat	Latest edition	Layers: An Atlas of composite Resin Stratification	Quintessence Publishing

Conservative Dentistry Clinical IV

Semester Two

Module Code: CONSH02	**Title:** Conservative Dentistry Clinical IV
Credits: 2	
Prerequisite modules: Dental Materials, Conservative Dentistry Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Fouad Haridy	
Academic Year taught: Semester Two 5th Year	
Key words: Resin Composite, Filling, Cavity Preparation, Caries, Aesthetic, Conservatism	
Date of latest revision: September 2021	

Aims

This course is a clinical course of operative dentistry. It is continuous over the fourth and fifth years. It is designed to give an in depth understanding and focusing on fundamentals of diagnosis, treatment planning and comprehensive restorative management of dental diseases. Along with the application of recent methods of prevention and treatment using

direct and indirect restorative dental treatment. This 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Recognize how to manage and restore badly broken-down teeth.
- Describe the etiology, consequences and management of dentin hypersensitivity.
- Discuss the recent concepts and trends introduced to the profession and reasons behind these changes according to evidence based dentistry.
- Explain the reasons, methods of prevention and treatments of the different failures encountered in the clinic.
- Explain dental restorations repair versus their replacement.
- Describe recent strategies in bondodontics.
- Describe the management, etiological factors & different treatment modalities of tooth wear.

Subject-specific cognitive skills

- Select the appropriate method for management of badly broken down teeth.
- Correlate between general principles of cavity preparation and the biologic and mechanical perspectives to manage different cases.
- Integrate and link the information gained across the course program with the problem solving in different clinical situations.
- Judge different problems associated with existing restorations to figure out the reason and the possible solutions for them.

Subject-specific practical skills

- Demonstrate patient reception, dismissal and operating positions to provide maximum accommodation and comfortable environment for excellence of performance.
- Use appropriate clinical equipment's and diagnostic tools to reach correct diagnosis and construct an optimal treatment plan of carious and non-carious defects for different groups of patients.
- Judge the teeth defects and perform high standard dental restorations.

Key/transferable skills

- Use the information technology as a mean of communication, for data collection and analysis
- Participate in team working and leadership activities.
- Demonstrate appropriate professional attitudes and behavior in dealing with staff members and helping personnel.

Content

Topics
Dentin hypersensitivity
Failure of Restorations.
Repair of Restorations
Management of mutilated teeth.
Recent advances in bondodontics.
Management of tooth wear.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Contemporary Clinical Practice, Vol. I	Quintessence Publishing
Jean-Francois Roulet, Nairn H. F. Wilson, Massimo Fuzzi	Latest Edition	Advances in Operative Dentistry: Challenges of the future, Vol. II	Quintessence Publishing

Fixed Prosth Clinical III

Semester One

Module Code: FPROH01	**Title:** Fixed Prosthodontics Clinical III
Credits: 2	
Prerequisite modules: Dental Materials, Fixed Prosthodontics PreClinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Ahmed Thabet	
Academic Year taught: Semester One 5th Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	

Aims

The course starts to predict and correlate the relation between different aspects of knowledge

in basic fixed prosthodontics and select the proper line of treatment for each prosthodontic case.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Correlate the previously gained information in fixed prosthodontics and take it as standard to solve different prosthodontic cases

Subject-specific cognitive skills

- Provide advanced care to patients with different fixed Restoration needs.

Subject-specific practical skills

- Fabricate different treatment modalities and designs for fixed prosthodontics patients.

Key/transferable skills

- Provide advanced care and treatment plan to patients with fixed restoration needs.

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Content

Topics
Esthetics & Color
All-Ceramic Restorations
Laminate Veneers
CAD/CAM Technology

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

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Fixed Prosth Clinical IV

Semester Two

Module Code: FPROH02	Title: Fixed Prosth Clinical IV
Credits: 2	
Prerequisite modules: Dental Materials, Fixed Prosthodontics PreClinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor. Ahmed Sabet	
Academic Year taught: Semester Two 5th Year	
Key words: Crown, Bridge, Veneer, Ceramics	
Date of latest revision: September 2021	

Aims

The course is continuous over the fifth year. The course presents more advanced techniques in the principles of crown and bridge and in implant dentistry and select suitable methods to solve fixed prosthodontics problems.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Critically examine and evaluate the role of fixed prostheses in the management of patients with complex needs.

Subject-specific cognitive skills

- Manage clinical prosthodontic problems.
- Provide advanced care to patients with complex fixed Restoration needs.

Subject-specific practical skills

- Fabricate fixed partial prosthodontics for complex cases.

Key/transferable skills

- Formulate and execute a treatment plan for patients with complex fixed Restoration needs.
- Provide advanced care to patients with complex fixed Restoration needs.



Content

Topics
Resin Bonded Restorations
Adhesion
Occlusion
Implant

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Herbert T. Shillingburg Jr, Sumiya Hobo, Lowell D. Whitsett, Richard Jacobi, Susan E. Brackett	Latest Edition	Fundamentals of Fixed Prosthodontics	Quintessence Publishing

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Advanced Prosthodontics and Implantology

Semester One

Module Code: RPROH01	**Title:** Advanced Prosthodontics and Implantology
Credits: 2	
Prerequisite modules: Dental Materials, Removable Prosthodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester One 5th year	
Key words: Advanced Cases , Implants	
Date of latest revision: September 2021	

Aims

The course presents advanced techniques and treatment planning for advanced and complex removable prosthodontics needs. Emphasis will be placed on occlusion, immediate dentures, single dentures, attachments, overdentures and implant supported and retained dentures. The students will also be taught to manage problems of poor denture foundation as flat and flabby ridge.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Review and evaluate the principles necessary to provide patients with removable prosthodontics.
- Critically appraise the principles of diagnosing, treatment planning, and execution of treatment for completely edentulous patients as well as special cases as flat and flabby ridges.
- Develop the ability to formulate and execute a treatment plan for patients with complex prosthodontic needs.
- Develop the ability to formulate and execute a treatment plan for patients needing implants.

- **Subject-specific cognitive skills**
- Develop the ability to formulate and execute a treatment plan for patients with complex removable prosthodontic needs.

Subject-specific practical skills

- Fabricate complete dentures for patients with advanced and special cases.

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- Fabricate implant supported and retained dentures.
- Manipulate different impression materials and take impressions for removable prosthodontics complex cases.
- Undertake mouth preparation prior to provision of removable prostheses.
- Insert implants using fully guided surgical stents.

Key/transferable skills

- Develop self-management, patient management and appropriate professional development skills.
- Communicate with dental laboratory technicians.

Content

Topics
Management of Flat and Flabby ridge
Immediate dentures.
Single dentures.
Overdentures.
Implant Prosthodontics

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
David W. Bartlett, Nigel F. Fisher	Latest Edition	Clinical Problem Solving in Prosthodontics	Churchill Livingstone
George A. Zarb, Charles L. Bolender, Gunnar E. Carlsson, Carl O. Boucher	Latest Edition	Boucher's Prosthodontic Treatment for Edentulous Patient	C.V. Mosby

Maxillofacial prosthodontics

Semester Two

Module Code: RPROH02	**Title:** Maxillofacial Prosthodontics
Credits: 2	
Prerequisite modules: Dental Materials, Removable Prosthodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk	
Academic Year taught: Semester Two 5th Year	
Key words: Maxillofacial Prosthesis	
Date of latest revision: September 2021	

Aims

The final removable prosthodontics course presents advanced techniques and treatment planning for advanced and complex removable prosthodontics needs. Subjects included are obturators, stents and splints. The students will also be taught to manage problems of maxillofacial prosthodontics.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Critically appraise the principles of diagnosing, treatment planning, and execution of treatment for maxillofacial cases.
- Develop the ability to formulate and execute a treatment plan for patients with maxillofacial needs.

Subject-specific cognitive skills

- Develop the ability to formulate and execute a treatment plan for patients with complex removable prosthodontic needs.

Subject-specific practical skills

- Design different types of partial dentures for patients with maxillofacial needs.
- Fabricate removable prosthodontics for patients with maxillofacial needs.

Key/transferable skills

- Develop self-management, patient management and appropriate professional development skills.
- Communicate with dental laboratory technicians.

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Content

Topics
Obturators
Stents
Splints
Different Maxillofacial Prostheses
Radiation
Acquired maxillofacial defects
Congenital maxillofacial defects

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
John Beumer III, Thomas A,Curtis, Mark T. Marunick	Latest Edition	Maxillofacial Rehabilitation Prosthodontic Surgical Considerations	St. Louis. Tokyo



Paediatric & Preventive Dentistry I

Semester One

Module Code: PAPDH01	**Title:** Paediatric & Preventive Dentistry I
Credits: 3	
Prerequisite modules: Endodontics Preclinical, Conservative Dentistry Preclinical ,	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Nadia Metwalli	
Academic Year taught: Semester One 5th Year	
Key words: Dental Growth and Development, Preventive Oral Measures, Dental Home	
Date of latest revision: September 2021	

Aim:

This course provides the students with basic information about different levels of prevention; and how to utilize this information in preventing oral diseases and improving patients' quality of life. It also enables the students to select the appropriate preventive measures according to the children's cognitive development and caries risk status. Basic information about dental home concept and anticipatory guidance will also be provided in this course.

Intended Learning Outcomes:

On completion of this module students should be able to:

Knowledge and understanding:

- Describe different levels of prevention of dental diseases.
- State dental caries prevention strategies, and how dietary habits affect the children's oral well-being.
- Draw effective treatment plans for children who developed dental caries following the recent guidelines in management of dental caries.
- Explain the dental home and anticipatory guidance concept and its importance in promoting oral health awareness.
- Outline the role of the dentist in preventing traumatic injuries, oral habits and oral cancer.
- Identify and manage space loss in the dental arch.

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Subject-specific cognitive skills:

- Construct effective preventive plans for children, on individual and professional levels.
- Sketch appropriate treatment choices for children with incipient lesions, and those in underprivileged areas.

Subject-specific practical skills

- Apply pit and fissure sealants on extracted permanent molars.
- Apply Fluoride varnish to children with moderate and high risk dental caries susceptibility.
- Demonstrate age-appropriate oral hygiene measures for children and motivate them.
- Analyze children's dietary habits and modify it in order to promote their oral health.
- Practice Anticipatory Guidance with the children's parents

Key/transferable skills:

- Use the information technology as a mean of communication, for data collection, analysis and professional development.
- Participate in team work, leadership activities and community service.
- Follow scientific & ethical guidelines in Dentistry
- Implement self-evaluation & progress aspects among the undergraduates.
- Recognize basic Quality Assurance Principals

Content

Topics
Introduction and Levels of prevention.
Dental caries in children
Nutrition in prevention of oral disease
Prevention of dental caries through fluoride application techniques
Mechanical plaque control
Chemical plaque control
Minimum invasive dentistry and biological approach
Prevention of traumatic injuries and Oral habits in children
Management and prevention of space loss
Management of children with special health care needs (prevention)
Prevention of oral cancer and management of the orthodontic patient
Dental home and anticipatory guidance & perinatal and infant oral health care
Prevention of gingival and periodontal disease

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Paediatric & Preventive Dentistry II

Semester Two

Module Code: PAPDH02	**Title:** Paediatric & Preventive Dentistry II
Credits: 3	
Prerequisite modules: Conservative Dentistry Preclinical , Endodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Noha Kabil	
Academic Year taught: Semester One 5th Year	
Key words: Behaviour Guidance, Local Anaesthesia Techniques, Special Health Care needs,	
Date of latest revision: September 2021	

Aim:

In this course the student learns the importance of growth and development in primary and permanent dentition and management of deviation from normality. The student is introduced to recent dental materials used for the paediatric patients, and the carious process where he would be able to manage these situations. The student is taught to manage traumatic injuries in children and those with medical, physical and behavioural conditions.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Explain the factors affecting the child's first dental visit.
- Identify the normal development and potential abnormalities in general growth with tooth eruption.
- Discuss the non-pharmacological and the pharmacological management techniques used in paediatric dentistry.
- Recognize different treatment options for deep caries in primary and permanent teeth
- State how physical, behavioural, cognitive disabilitiesmay affect the children and adolescents to accept dental care.
- List the restorative materials options in treating primary teeth.
- Describe the impact of traumatic injuries on primary and permanent dentition and their management.
- Discuss the non-pharmacological and the pharmacological management techniques used in paediatric dentistry
- Describe appropriate antibiotics and analgesics for children according to their age and weight.

Subject-specific cognitive skills:

- Detect abnormalities in Dentoalveolar development.
- Formulate treatment plans for children utilizing different behavioural and pharmacological management.
- Solve traumatic injury problems in children
- Sketch reliable treatment options for badly decayed permanent first molars and those with molar incisor hypomineralization.

Subject-specific practical skills:

- Estimate Dental Age through Models and X-Rays.
- Prepare class I and class II cavities on natural and acrylic teeth.
- Conduct pulpotomy on extracted primary teeth

Key/transferable skills:

- Use the information technology as a mean of communication, for data collection, analysis and professional development.
- Participate in teamwork, leadership activities and community service.

Content

Topics
Introduction to pediatric dentistry ,first dental visit and treatment planning
Eruption and dental anomalies
Child psychology and Management of potentially resistant child
Pharmacological management
Local anaesthesia for paediatric patients
Principles of cavity preparation in primary teeth
Management of deep caries
Materials used in paediatric Dentistry
Full coverage in primary dentition
SHCN management
Trauma Management /child abuse
MIH , extraction of first permanent molars and serial extraction
Antibiotics and drug abuse
Gingival and periodontal diseases

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Ralph E. McDonald, David R. Avery, Jeffrey A. Dean	Latest Edition	Dentistry for the Child and Adolescent	C.V. Mosby
R. J. Andlaw, W. P. Rock	Latest Edition	A Manual of Pediatric Dentistry	Churchill Livingstone
John J. Murray	Latest Edition	The Prevention of Oral Disease	Oxford University Press

Oral Surgery & Anaesthesia III

Semester One

Module Code: OSURH01	**Title:** Oral Surgery & Anaesthesia III
Credits: 3	
Prerequisite modules: Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Tarek Abbas Hassan	
Academic Year taught: Semester One 5th Year	
Key words: Extraction, Fracture, Enucleation, Cyst, Tumour	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand and critically appraise the role of the oral surgeon in the management of patients with maxillofacial surgical problems.
- Evaluate and formulate treatment plans for patients with complex surgical needs.
- Have knowledge of the principles of sterilization, disinfection and asepsis.

Subject-specific cognitive skills

- Evaluate all treatment outcomes, including the unexpected, and undertake remedial action where appropriate.

Subject-specific practical skills

- Administer local anaesthesia in all areas of the oral cavity and manage potential complications relating to its use.
- Perform difficult extractions of teeth.
- Teat dental infections.

Key/transferable skills

- Assess patients for and inform patients or their guardians of the indications, contraindications, limitations, risks and benefits of conscious sedation and general anaesthesia.
- Administer first aid treatment to patients suffering from trauma.
- Diagnose different oral lesions and refer them to the specialist concerned.

Content

Topics
Surgical management of congenital defects of the maxilla and mandible.
Cysts and tumours of the oral cavity and jaws and their surgical management.
Management of odontogenic infections and their sequelae.
Introduction to implant dentistry.
Principles of differential diagnosis and biopsy.
Preprosthetic surgery
Introduction to aesthetic surgery.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stanley F. Malamed	Latest Edition	Handbook of Local Anesthesia	C.V. Mosby
Edward Ellis, James Hupp, Myron Tucker, Larry Peterson	Latest Edition	Contemporary Oral and Maxillofacial Surgery	C.V. Mosby
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Bennett Rosenberg	Latest Edition	Medical Emergencies in Dentistry	W.B. Saunders

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Oral Surgery & Anaesthesia IV

Semester Two

Module Code: OSURH02	**Title:** Oral Surgery & Anaesthesia IV
Credits: 3	
Prerequisite modules: Oral Pathology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Tarek Abbas Hassan	
Academic Year taught: Semester Two 5th Year	
Key words: Extraction, Fracture, Enucleation, Cyst, Tumour	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand and critically appraise the role of the oral surgeon in the management of patients with maxillofacial surgical problems.
- Evaluate and formulate treatment plans for patients with complex surgical needs.
- Have knowledge of the principles of sterilization, disinfection and asepsis.

Subject-specific cognitive skills

- Evaluate all treatment outcomes, including the unexpected, and undertake remedial action where appropriate.

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Subject-specific practical skills

- Administer local anaesthesia in all areas of the oral cavity and manage potential complications relating to its use.
- Perform difficult extractions of teeth.
- Treat dental infections.

Key/transferable skills

- Assess patients for and inform patients or their guardians of the indications, contraindications, limitations, risks and benefits of conscious sedation and general anaesthesia.
- Administer first aid treatment to patients suffering from trauma.
- Diagnose different oral lesions and refer them to the specialist concerned.

Content

Topics
Surgical management of congenital defects of the maxilla and mandible.
Management of patients suffering from cancer of the oral cavity and neck / reconstructive surgery.
Fractures of the facial bones and their management.
Introduction to orthognathic surgery.
Types of general anaesthetic drugs and techniques / conscious sedation.
Complications of general anaesthesia and their management.
Cardiac-pulmonary Resuscitation.
Temporomandibular disorders – diagnosis and management.

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**



Reading List

Author	Date	Title	Publisher
Stanley F. Malamed	Latest Edition	Handbook of Local Anesthesia	C.V. Mosby
Edward Ellis, James Hupp, Myron Tucker, Larry Peterson	Latest Edition	Contemporary Oral and Maxillofacial Surgery	C.V. Mosby
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone
Bennett Rosenberg	Latest Edition	Medical Emergencies in Dentistry	W.B. Saunders

Periodontology I

Semester One

Module Code: PRIOH01	**Title:** Periodontology I
Credits: 3	
Prerequisite modules: Oral Biology, Oral Pathology	
Reassessment: *Re-exam in August*	
Module leader: Prof. Mouchira Salah Eldin	
Academic Year taught: Semester One 5th year	
Key words: Gingivitis, Periodontitis, Scaling	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Describe the biology and pathology of the periodontium as well as the principles of bone biology, wound healing and tissue integration.

- Collect, organize, analyse, interpret and present clinical data related to examination of periodontal tissues.
- Demonstrate competence in non-surgical and analysing occlusal factors in the expression of periodontal disease.

Subject-specific cognitive skills

- Show awareness of the principles of providing and maintaining patient's oral hygiene.

Subject-specific practical skills

- Scale, root plane and clean teeth.
- Provide oral hygiene measures and instructions to patients.

Key/transferable skills

- Develop self-management and appropriate professional development skills.

Content

Topics
Macro- and micro-anatomy of the periodontium.
Classification of periodontal disease.
Aetiology of periodontal disease.
Pathogenesis of periodontal disease.
Local predisposing factors in periodontal disease
Systemic modifying factors in periodontal disease
Gingivitis
Periodontitis
Periodontal abscess and acute gingival conditions
Diagnosis of periodontal problems.

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%

Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Newman et al.	Latest Edition	Carranza's Clinical Periodontology	W.B. Saunder's Company,
Crispian Scully, Roderick A. Cawson	Latest Edition	Medical Problems in Dentistry	Butterworth-Heinemann
Cawson, R.A., Bennie, W.H. and Eveson, J.W.	Latest Edition	Colour Atlas of Oral Diseases	Mosby Wolfe
Thomas G., Jr. Wilson, Kenneth S. Kornman	Latest Edition	Fundamentals of Periodontics	Quintessence Publishing

Periodontology II

Semester Two

Module Code: PRIOH02	**Title:** Periodontology II
Credits: 3	
Prerequisite modules: Oral Biology, Oral Pathology	
Reassessment: *Re-exam in August*	
Module leader: Prof. Mouchira Salah Eldin	
Academic Year taught: Semester Two 5th year	
Key words: Gingivitis, Periodontitis, Scaling	
Date of latest revision: September 2021	

Aims

The course also introduces students to the importance of periodontics as a dental discipline. Emphasis is placed on estimation of prognosis and formulating a proper treatment plan of various gingival and periodontal conditions. In addition, the student will be introduced to the different non-surgical and surgical modalities of various periodontal problems.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Establish a prognosis for the outcomes of periodontal treatments.
- Develop and implement recall and evaluate strategies for periodontal treatment including supportive maintenance therapy.
- Function effectively with other disciplines in treatment planning and in treatment sequencing.
- Demonstrate the knowledge and understanding of surgical management of periodontal defects, regenerative techniques and mucogingival procedures.

Subject-specific cognitive skills

- Show awareness of the principles of providing and maintaining patient's oral hygiene.

Subject-specific practical skills

- Scale, root plane and clean teeth.
- Provide oral hygiene measures and instructions to patients.

Key/transferable skills

- Develop self-management and appropriate professional development skills.

Content

Topics
Prognosis and risk assessment of periodontal problems.
Treatment planning and supportive periodontal therapy for periodontal problems.
Drugs used in periodontal therapy.
Periodontal surgery
Periodontal regenerative surgeries
Mucogingival problems
Perio-ortho interrelationship
Perio-restorative interrelationship

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%

Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Newman et al.	Latest Edition	Carranza's Clinical Periodontology	W.B. Saunder's Company,
Crispian Scully, Roderick A. Cawson	Latest Edition	Medical Problems in Dentistry	Butterworth-Heinemann
Cawson, R.A., Bennie, W.H. and Eveson, J.W.	Latest Edition	Colour Atlas of Oral Diseases	Mosby Wolfe
Thomas G., Jr. Wilson, Kenneth S. Kornman	Latest Edition	Fundamentals of Periodontics	Quintessence Publishing

Endodontic Clinical II

Semester One

Module Code: ENDOH01	**Title:** Endodontics Clinical II
Credits: 2	
Prerequisite modules: Endodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamad Medhat kataia	
Academic Year taught: Semester One 5th Year	
Key words: Root Canal, Resorption, Periapical lesion, Trauma	
Date of latest revision: September 2021	

Aims

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 includes the clinical 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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- List the various traumatic injuries along with their diagnosis, classification and management
- Describe the subjective and objective examination of patients with dental injuries and interpret the findings.
- State the anatomic pathways of communication between the dental pulp and the priodontium
- Establish treatment requirement and sequencing according to diagnostic finding for primary endodontic lesions. Primary periodontal lesion, and combined endodontic-peroiodontal lesions.
- Describe endodontic surgeries and determine its prognosis.
- Discuss the indications for the procedures incision and drainage, apical curettage, root-end resection, root end preparation and filling, root amputation, hemisection and bicuspidization.
- Recognize different classifications for types of root resorption, and treatment modalities of each type.
- Describe the probable prognosis for root resorption case.

Subject-specific cognitive skills

- Classify different types of endodontic trauma
- Design an appropriate trauma treatment plan.
- Self evaluate his/her clinical level of performance.
- Classify and identify micro surgical endodontic tools and procedures.
- Classify and identify different types of resorptive lesions.

Subject-specific practical skills

- Perform adequate subjective and objective examination for the identification of endodontic trauma
- Execute proper treatment in endo-perio lesions
- Perform proper interference in different scenarios of traumatic injuries
- Perform root canal treatment clinically, arrange and employ the appropriate instruments and techniques and techniques and manage some procedural errors during root canal treatment if correctable.

Key/transferable skills

Communicate with patient, other member of the dental team and other health professionals.

- Be familiar with the social and psychological issues relevant to the care of patients.
- Perform the quality assurance principles in the practice and informational management.

Content

1	Management of traumatized permanent teeth.
2	Root resorption.
3	Pulp & periodontal diseases interrelationship.
4	Periapical surgery.

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stephen Cohen, Richard C. Burns	Latest Edition	Pathways of the Pulp	C.V. Mosby
John I. Ingle and Leif K. Backland	Latest Edition	Endodontics	B.C. Decker
Thomas R. Pitt Ford	Latest Edition	Harty's Endodontics in Clinical Practice	Butterworth-Heinemann

Endodontic Clinical III

Semester Two

Module Code: ENDOH02	**Title:** Endodontics Clinical III
Credits: 2	
Prerequisite modules: Endodontics Preclinical	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Mohamed Medhat kataia	
Academic Year taught: Semester Two 5th Year	
Key words: Root Canal, Pulp, Periapical lesion	
Date of latest revision: September 2021	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the various tooth discoloration and the techniques for vital and non-vital bleaching.
- Select the appropriate bleaching agent and technique according to the cause of discoloration.
- Outline the role of restoration in the longevity of endodontically treated teeth, the requirements of an adequate restoration and the restorative options.
- Identify the reasons for orthograde retreatment
- Discuss methods of disassembly of crowns and retrieval of root filling material and broken instruments and canal blockages
- Discuss the various endodontic treatment outcomes
- Describe briefly the interrelationship of endodontics with other specialties including orthodontics. Prosthodontics, and restorative dentistry.
- Describe different vital pulp therapy modalities, indications and different approaches
- Understand different advances in regenerative endodontics and recent attempts to standardize its procedures

Subject-specific cognitive skills

- Self-evaluate his/her clinical level of performance.
- Classify and identify different bleaching techniques and agents.
- Interpret differentiate approaches in vital pulp therapy and regenerative endodontics.
- Know the proper solution for different retreatment challenges.
- Choose the proper restoration for endo-treated teeth.

Subject-specific practical skills

- Prescribe the appropriate medication for each patient they treat according to the pain and disease identified.
- Perform intracanal teeth bleaching.
- Perform vital pulp therapy modalities and regenerative procedures.
- perform simple retreatment cases
- Write a referral from for medical consultation if needed.

Key/transferable skills

- Be competent at communication with patient, other member of the dental team and other health professionals.
- Be familiar with the social and psychological issues relevant to the care of patients.
- Perform the quality assurance principles in the practice and informational management.

Content

1	Bleaching of discoloured teeth.
2	Restoration of endodontically treated teeth
3	Endodontic Retreatment
4	Success and failure
5	Regeneration

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Stephen Cohen, Richard C. Burns	Latest Edition	Pathways of the Pulp	C.V. Mosby
John I. Ingle and Leif K. Backland	Latest Edition	Endodontics	B.C. Decker
Thomas R. Pitt Ford	Latest Edition	Harty's Endodontics in Clinical Practice	Butterworth-Heinemann

Oral Radiology Clinical I

Semester One

Module Code: ORADH01	**Title:** Oral Radiology Clinical I
Credits: 1	
Prerequisite modules: Oral Radiology Preclinical, General Anatomy, Oral Biology	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Hossam Kandil	
Academic Year taught: Semester One 5th year	

Key words: Differential Diagnosis, CBCT, CT, MRI

Date of latest revision: March 2019

Aims

This course is in continuation of the introductory course in 3rd year and includes radiographic interpretation of various pathological lesions that aid in differential diagnosis. The course teaches the fundamentals of differential diagnosis with step-by-step image interpretation and categorization of lesions according to radiographic appearance.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand fundamentals of the methodological approach and principles of radiographic interpretation and description of lesions.
- Differentiate between normal and abnormal radiographs with special reference to benign tumors, malignant tumors, bone diseases, systemic diseases, and traumatic injuries.
- Be familiar with the basic concept of CT, MRI, CBCT and US and their main applications in the field of oral and maxillofacial region.
- Give a brief idea about advanced diagnostic modalities, and their application in dentistry regarding Temporomandibular joint, Maxillary sinus and salivary glands disorders.
- Be familiar with the most commonly radioactive isotopes in the field of nuclear medicine and their use in diagnosis of certain conditions.
- Distinguish the basic radiological appearances of different pathologies using different diagnostic modalities in radiology.
- Formulate a reasonable and comprehensive differential diagnosis and recognized common disorders.

Subject-specific cognitive skills

- Determine and analyze each radiographic abnormality.
- Formulate a differential diagnosis in a ranking order after relating and matching the present radiographic criteria to different clinical and radiographic finding of each studied pathological condition.
- Interpret different advanced modalities images
- Identify the guidelines of Radiographic Interpretation & the Principles of radiographical methods of assessment.

Subject-specific practical skills

- Write and construct a proper radiographic report for panoramic images and complete mouth survey images (CMS).
- Know how to select the radiographic modality specific for each category of lesions

- Interpret radiographs and identify deviations from normal regarding unilocular, multilocular radiolucencies, unilocular or generalized radiopacities as well as mixed lesions.
- Review published articles critically and to perform effective literature searches on a given topic

Key/transferable skills

- Communicate effectively and collaboratively with other departments for proper tentative diagnosis and follow up of the case.
- Critically appraise and evaluate the use of oral radiology in the differential diagnosis of diseases and lesions of the oral and para-oral region.
- Implement ethical standards dealing with colleagues in the health care field.
- Working with colleagues: Treating colleagues fairly, Working in teams. Leading teams, Sharing information with colleagues.
- Apply the concept of professionalism, patient confidentiality (HIPAA- Health Insurance Portability and Accountability Act and ethical behaviour). Estimate the ethical and legal basis of confidentiality, including the need to maintain accurate and complete patient records in a confidential manner.
- Provide appropriate treatment of patients respecting their privacy and dignity without regard to their background culture.
- Provide and receive constructive criticism.
- Justify the implications of ethics and obtain informed consent from their patients.
- Make verbal and written presentations using appropriate audio-visual aids.
- Be accountable for deadlines; complete requirements and responsibilities on time.

Content (Theoretical) (Lectures)

Topics
Principles of radiographic interpretation
Benign odontogenic tumors of the jaws and non-odontogenic tumors
Malignant tumors of the jaws
Bone diseases manifested in the jaws
Systemic diseases manifested in the jaws
Trauma to teeth and facial structures
Specialized radiographic techniques I
Specialized radiographic techniques II
Radiographic examination of temporomandibular joint
Radiographic examination of maxillary sinus
Radiographic examination of salivary glands

Content (Practical Sections)

Topics
Differential diagnosis of Periapical radiolucent lesions
Differential diagnosis of inter-radicular radiolucent lesions
Differential diagnosis of pericoronal radiolucent lesions.
Differential diagnosis of multilocular radiolucent lesions
Differential diagnosis of multiple separate radiolucent lesions of jaw bones.
Differential diagnosis of generalized rarefaction of jaw bones.
Differential diagnosis of mixed RL-RO lesions Part I
Differential diagnosis of mixed RL-RO lesions Part II
Differential diagnosis of mixed RL-RO lesions Part III
Differential diagnosis of radiopaque lesions. Part I
Differential diagnosis of radiopaque lesions. Part II

Methods of Learning &Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Labs and clinics to apply those principles practically.



Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
White and phroah	8th edition	Oral radiology, principles and interpretation	C.V.Mosby
Periodicals and websites		-Lectures Online and Autotutorials Online by Prof. Axel Ruprecht, University of Iowa College of Dentistry. -Marcilan Maxillofacial Radiology: http://www.marcilan.com	
Norman K. Wood, Paul W.Goaz	5th edition	Differential diagnosis of oral and maxillofacial lesions	C.V. Mosby

Comprehensive Clinical Dentistry

Semester Two

Module Code: COCDH02	**Title:** Comprehensive Clinical Dentistry
Credits: 2	
Prerequisite modules: Oral Radiology Preclinical, Endodontics Preclinical, Fixed Prosthodontics Preclinical, Removable Prosthodontics Preclinical, Conservative Dentistry Preclinical.	
Reassessment: *Re-exam in August*	
Internal examiner: Professor Fardos Rizk, Professor Mohamed Fouad , Professor Ahmed Sabet, Prof. Mohamed Kataia.	
Academic Year taught: Semester Two 5th year	
Key words: Differential Diagnosis, Implants, full mouth rehabilitation, Ethetics	
Date of latest revision: September 2021	

Aims:

This course is designed to cover all clinical disciplines in dentistry. This is a conjoint course by all dental departments where contributors from all dental disciplines participate in both the lectures and clinical sessions. Lectures are designed to cover a wide aspect of advanced dental topics related to comprehensive dental care. Clinical sessions are conducted to amalgamate the clinical experience gained by the students in previous clinical courses and provide them with an excellent foundation for comprehensive patient care.

Intended Learning outcomes:

On completion of this module students should be able to:

Knowledge and understanding

- Diagnose conditions of the oral cavity and its related structures using proper diagnostic tools.
- Develop a comprehensive treatment plan for the prevention and treatment of oral conditions so that each patient can be maintained at, or restored to, a healthy and functioning aesthetic condition.
- Understand how to perform competently all preventive and therapeutic procedures which are expected to be performed by a general dentist.

Subject-specific cognitive skills

- Develop the ability to formulate and execute a treatment plan for patients needing complex multidisciplinary approach.

Subject-specific practical skills

- Perform competently all preventive and therapeutic procedures which are expected to be performed by a general dentist.
- Perform sequential full mouth rehabilitation.

Key/transferable skills

- Develop self-management, patient management and appropriate professional development skills.
- Communicate with dental laboratory technicians.

Content

Topics
Diagnosis and treatment plan
Conservative Dentistry
Implants

Occlusion
Different prosthetic options

Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Clinics to apply those principles practically and to improve manual dexterity.

Assessment

In Course Assessment (Quizzes, Assignments and/or Oral Exam)	30%
Practical or Clinical, End of Semester Exams	30%
Final Unseen Written End of Semester Exams	40%
Total	**100%**

Reading List

Author	Date	Title	Publisher
David W. Bartlett, Nigel F. Fisher	Latest Edition	Clinical Problem Solving in Prosthodontics	Churchill Livingstone
John I. Ingle and Leif K. Backland	Latest Edition	Endodontics	B.C. Decker
Edward W. Odell	Latest Edition	Clinical Problem Solving in Dentistry	Churchill Livingstone

Dental Informatics

Module Code: ELECC01/ ELECC02	**Title:** Dental Informatics
Credits: 2	
Prerequisite modules: None	
Reassessment: Re-sit exam at the end of the following semester	
Internal examiner: Yet to be appointed	
Semester taught: 1st or 2nd semester first year	
Key words: Carbohydrates, Proteins, Fats, Vitamins, Minerals	
Date of latest revision: October 2012	

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Differentiate between different kinds of dental imaging techniques.
- Illustrate Web Development Basics.

Subject-specific cognitive skills

- Demonstrate basic computer graphics concepts.
- Demonstrate fundamental principles of data, information, knowledge and data mining.

Subject-specific practical skills

- Use the internet to send and receive electronic mail.
- Perform on-line search in the dental and medical literature through World Wide Web, Med-line and other search tools.
- Choose the type of hardware and software necessary to open and maintain a dental office.
- Be experienced in a dental application software package which includes computer-based oral health records, dental office management software and clinical management software.

Key/transferable skills

- Use a graphics package such as Photoshop or Microsoft Photo Editor in dentistry.
- Create a web page for the dental office

Content

Topics
Introduction to Dental Informatics
Implementation of New Technologies in Dental Practice.
Managing the patients electronic record – Practice management. ▪ Maintaining patient records, tracking payments, marketing, etc. – Recording and management of clinical data. ▪ Patient history, medical alerts, treatment planning, monitor treatment progress.

– Dental Imaging ▪ Intra-oral and Extra-oral camera ▪ X-rays ▪ Digital Imaging
– The use of communication technologies and Internet teaching issues as e-mail, search, teledentistry/ teleconference and web development in the study, Research and clinical dentistry practice.

Methods of Learning & Teaching

- Lectures to introduce the basic concepts of the course subjects.
- Computer labs to conduct a series of sessions on the use of the internet, web development, image processing and a dental application software package.

Assessment

Participation , Quizzes and Assignments (Course work)	50%
Final Unseen Written End of Year Exams	50%
Total	**100%**

Reading List

Author	Date	Title	Publisher
Jennifer Niederst	Latest Edition	Web Design in a Nutshell	O'Reilly
Schleyer T; Spaliek H.	Latest Edition	Dental Informatics: A Cornerstone of Dental Practice	J. Am. Dent. Ass.; 132: 605-613
Louis M. Abbey, John Zimmerman	Latest Edition	Dental Informatics: Integrating Technology Into the Dental Environment	Springer-Verlag

Dental Photography

Module Code: ELECC01/ ELECC02	**Title:** Dental Photography
Credits: 2	
Prerequisite modules: None	
Reassessment: Re-sit exam at the end of the following semester	

Internal examiner: Yet to be appointed
Semester taught: 1st or 2nd Semester first year
Key words: Light Colours, Digital Imaging, Range Finder
Date of latest revision: October 2012

Aims

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.

Intended Learning Outcomes

On completion of this module students should be able to:

Knowledge and understanding

- Understand the concept of registering photographic images.
- Understand the basics of digital photography.

Subject-specific cognitive skills

- Understand how to select the proper tools that he may use to achieve his photographic needs.

Subject-specific practical skills

- Take acceptable medical, dental, and scientific photographic images.
- Avoid and correct errors and defects that he/she may meet with in their photographic work.

Key/transferable skills

- Effectively digitally edit/enhance photographic images.



Content

Topics
What is Photography? Registration of an image on a receiver What is Light? - A mix or spectrum of seven visible colours - Wave lengths of light colours - Characteristics of light - Colour temperature Basic colours Complementary Colours The Camera - Types o Range finder o SLR (Single Lens Reflex) (interchangeable Lens) - Components of the camera • Lens o Properties o Types • Shutter • Film o Negative • Black and white • Colour o Positive • Black and white • Colour - Factors affecting image quality • Lighting (brightness and contrast) o Diaphragm o Shutter speed (for continuous light) o Light distribution o Distance from flash and guide n° of the flash • Focus - Properties of an image • Sharpness • Depth of field • Contrast • Brightness • Colour balance Digital Photography • Requirements for scientific digital photography • Photographic Errors • Digital enhancement of poorly photographed images

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Methods of Learning & Teaching

- Lectures to explain underlying principles.
- Tutorials to help in understanding these principles.
- Practical sessions to apply the theoretical knowledge.

Assessment

Participation , Quizzes and Assignments (Course work)	50%
Final Unseen Written End of Year Exams	50%
Total	**100%**

Human Nutrition

Module Code: ELECC01/ ELECC02	**Title:** Human Nutrition
Credits 2	
Prerequisite modules: None	
Reassessment: Re-sit exam at the end of the following semester	
Internal examiner: Professor Muchira Salah Eddin	
Semester taught: 1st or 2nd Semester first year	
Key words: Vitamins, Minerals, Carbohydrates, Proteins, Fats, Water	
Date of latest revision: October 2012	

Aims

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'.

Intended Learning Outcomes

Knowledge and understanding

- Understand the nutritional requirements of humans under different circumstances. Understand the vitamin requirements of humans.
- Understand the mineral requirements of humans.
- Understand the water requirements of humans.

Subject-specific cognitive skills

- Advise his patients regarding their nutritional requirements especially with regard to their oral and dental health.

Subject-specific practical skills

- Formulate proper diet schemes for his patients and their children to maintain oral and dental wellbeing.

Content

Topics
What is meant by nutrition
How to determine nutritional requirements
Types of nutrients and understanding their needs and values for health
Micronutrients and their body needs
Vitamins
Minerals
Macronutrients
Carbohydrates.
Proteins
Fats
Water

Methods of Learning & Teaching

Lectures to explain underlying principles.

- Tutorials to help in understanding these principles.

Assessment

Participation , Quizzes and Assignments (Course work)	50%
Final Unseen Written End of Year Exams	50%
Total	**100%**

