



Future University in Egypt
Faculty of oral and dental medicine

Program Specification

For Bachelor of Oral and Dental Medicine and Surgery

(B.D.S)

2017 - 2018

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Program Specification
For bachelor of oral and dental medicine and surgery
(B.D.S) (2017-2018)

A-Basic Information

1. **Program title:** Bachelor degree of oral and dental medicine and surgery
2. **Program type:** single
3. **Departments:** 7 Departments, according to the Faculty's bylaw:
 - Oral biology and oral pathology
 - Prosthodontics
 - Conservative dentistry
 - Oral and maxillofacial surgery
 - Orthodontics and pedodontics
 - Oral medicine, periodontology, diagnosis, and oral radiology
 - Supplementary general sciences
4. **Coordinator:** Prof. Nivine Ragy, Vice dean of students affairs
5. **Internal evaluator:** Prof. Gihan Omar
6. **External evaluator:** Prof. Mervat Fawzy
7. **Date of program approval:** 8/3/2006
8. **Date of program specifications approval:** Faculty Council: No. (65), date: 9-10-2017.

B- Professional Information

1-Program aims:

The overall aims of the program are to provide the graduate with:

- 1.1. The necessary scientific knowledge, skills and experience as a general dental practitioner. (1-1 NARS)
- 1.2. Professional skills to maintain the oral and dental health of the patients. (1-1, 1-3 NARS)

- 1.3. Evaluation of his current knowledge and clinical experience and the possible need for referral. (1-9 NARS)
- 1.4. The ethical and medicolegal basics for dental practice. (1-2, 1-8 NARS)
- 1.5. Appropriate communication skills with the patients. (1-4 NARS)
- 1.6. Updated knowledge and techniques evaluation. (1-10 NARS)
- 1.7. Socio-economic aspects of different communities and engage effectively in community services. (1-5 NARS)
- 1.8. Safe and infection-control measures. (1-6 NARS)
- 1.9. The appreciation of lifelong learning and continuous self-assessment. (1-7 NARS)

2. Intended Learning outcomes (ILOs):

a. Knowledge and understanding:

Upon completion of the program, the graduate should be able to

- a.1. Identify the basic principles in chemistry that may be required by the dentist in the selection of the relevant pharmacological agents. (2-4 NARS)
- a.2. Describe the basic concepts of human physiology and anatomy. (2-1 NARS)
- a.3. Describe general principles of animal, plant, and biophysics and their applications in the medical field. (---)
- a.4. Explain the interrelationship between different systems of the human body. (2-1 NARS)
- a.5. Discuss the pathogenesis involved in different conditions that may affect oral health. (2-2 NARS)
- a.6. Identify the microbial ecology of the oral flora and the microbiological aspects of caries, pulpal and periodontal disease. (2-2 NARS)
- a.7. Identify dental terminology, tooth anatomy, physiology, histology, function of teeth and associated structures, in health and disease. (2-1 NARS)
- a.8. Discuss the development and growth of the face and occlusion, and their variations. (2-1 NARS)
- a.9. Identify the prevalence of common dental conditions and oral health needs of different sectors of the community. (2-3 NARS)
- a.10. Point out the basis and significance of oral health promotion, nutritional education and prevention of oral diseases in population based approach. (2-3 NARS)
- a.11. Identify the properties, limitations and parameters by which performance of dental materials are assessed. (2-6 NARS)
- a.12. Discuss the basis of geriatric dentistry. (2-3 NARS)

- a.13. Explain the influence of psychology background on the effective management of patients particularly children. (2-9 NARS)
- a.14. Describe the broad principles of biostatistics, research design and methodology. (2-7 NARS)
- a.15. point out the methods of preventing and management of medical emergencies.(2-4 NARS)
- a.16. Discuss the ethical and medico legal aspects relevant to the practice of dentistry. (2-8 NARS)
- a.17. Demonstrate principles of proper dental practice and management. (2-6 NARS)
- a.18. Describe the scientific principles of sterilization and disinfection in the dental clinic and lab, to prevent cross infection and provide personal and environmental safety. (2-5 NARS)
- a.19. Point out the principles of evidence based dentistry. (2-7 NARS)

b. Intellectual skills:

Upon completion of the program, the graduate should be able to

- b-1 Differentiate between dental features in normal and abnormal condition (4-2 NARS)
- b-2 Generate a list of potential patient's clinical problems. (4-3 NARS)
- b-3 Interpret collected diagnostic data to solve clinical problems. (4-4 NARS)
- b-4 Plan properly for treatment of dental patients. (4-5 NARS)
- b-5 Evaluate the effects of medications taken by the patient on dental management. (4-6 NARS)
- b-6 Deduce reasons in clinical problem solving. (4-7 NARS)
- b-7 Choose the drugs suitable for different dental problems (4-6 NARS)
- b.8. Correlate the knowledge of basic science of dental materials, biophysics, chemistry, zoology, botany, and human physiology and anatomy with other dental sciences. (4-1 NARS)
- b.9. Find effective solution for dental patients with medical problems. (4-4 NARS)

C. Professional and practical skills:

Upon completion of the program, the graduate should be able to

- c-1 Document a complete patient's history, perform clinical examination, and estimate suitable investigations. (3-1 NARS)
- c-2 Prescribe drugs commonly used in oral medicine and evaluate their side effects and interactions. (3-8 NARS)
- c-3 Consult with other health care professionals, when required. (3-2 NARS)
- c-4 Discover the etiological and risk factors of pathological conditions, that may contribute to disease process. (3-3 NARS)

c-5 Perform a range of clinical procedures which are within the scope of general dentistry: (3-4 NARS)

- c-5-1 Apply preventive procedures.
- c-5-2 Apply different local anesthetic Techniques.
- c-5-3 Extract teeth and remove roots when necessary.
- c-5-4 Diagnose commonly encountered oral lesions.
- c-5-5 Perform the necessary radiographs.
- c-5-6 Perform non-surgical periodontal treatment and monitor treatment outcomes.
- c-5-7 Restore carious and non-carious tooth defects with emphasis on basic concepts of esthetics.
- c-5-8 Perform basic endodontic procedures.
- c-5-9 Rehabilitate partially and completely edentulous patients.
- c-5-10 Diagnose and prevent the development of malocclusions.

c-6 Use infection control measures in dental practice. (3-5 NARS)

c-7 Handle patients with anxiety or apprehension in different age groups. (3-6 NARS)

c-8 Perform basic life support measures in dental and medical emergencies. (3-7 NARS)

c-9 Monitor the effects of appropriate prescribed pharmaceutical agents taking into consideration drug and patient factors. (3-8 NARS)

d. General and transferable skills:

Upon completion of the program, the graduate should be able to

- d.1 Establish a patient–dentist relationship that allows the effective delivery of dental treatment. (5-2 NARS)
- d.2 Identify patient expectations, desires and attitudes (needs and demands) when considering treatment planning and during treatment. (5-2 NARS)
- d-3 Work as a cooperative member of the multidisciplinary team. (5-1 NARS)
- d-4 Communicate successfully and work in a culturally diverse society. (5-2 NARS)
- d-5 Apply and efficiently identify all available methods for professional development and continuing education. (5-3 NARS)
- d-6 Execute an ethical and scientific attitude. (5-4 NARS)
- d-7 Assess their expert capabilities, work, and advancement. (5-5 NARS)
- d-8 Realize professional accountability towards the nearby society. (5-6 NARS)
- d-9 Apply contemporary technologies to enhance and expand professional practice. (5-7 NARS)

d-10 Discuss the fundamental ideas of quality assurance and proper performance and management practice. (5-8 , 5-9 NARS)

3. Academic standards:

This program adopted the National Academic Reference Standards (NARS) January 2009 of the National Authority for Quality Assurance of Accreditation and Education (NAQAAE), which describes the standards of an undergraduate program in dentistry, and approved by the faculty council number (5) on 26/9/2010.

4. Program Structure and content:

A. Program duration: 5 levels divided into 10 semesters for 5 Academic years followed by one year clinical training as house officers.

B. Program structure:

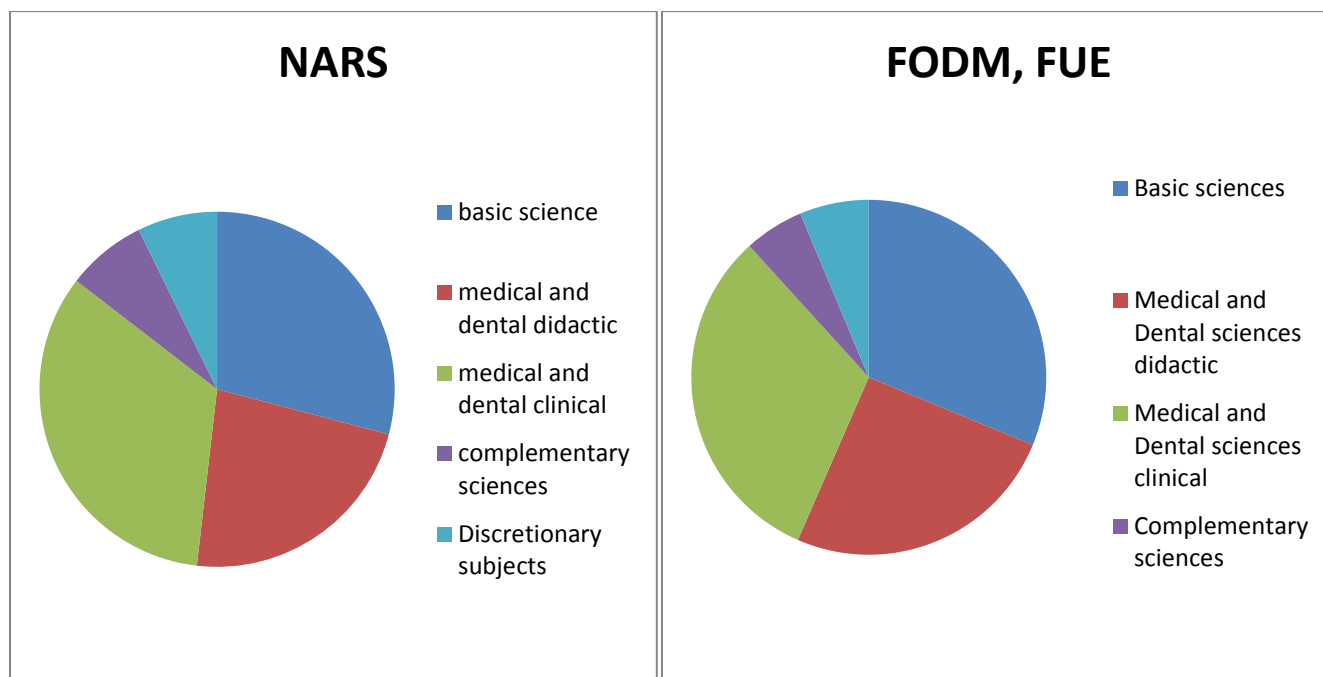
- No of credit hours:

Theoretical	Practical	Total	Obligatory	Elective
114	97	211	207	4

- Structure

Subjects	NARS percentage range	FUE program percentage	
		No. of credit hours	%
Basic sciences	28-32%	69	32.7 %
Medical and Dental sciences:	21-25%	56	26.5%
A-Didactic	33-37%	70	33.2%
B-Laboratory &clinical			
Complementary sciences	5-8%	12	5.7%
Discretionary subjects	6-8%	4 (2 of 7 elective courses selected by the student)	1.9 (2 courses) 6.6% (7 courses)

- Clinical training: Each student must spend 1 year (12 months) internship program in any educational dental hospital.



C. Program levels:

- Level 1 and 2 (pre-clinical stage)

Year	Total	Obligatory	University Requirements: Obligatory	University Requirements: Elective
1 st year	40 CH	32 CH	8 CH	---
2 nd year	37 CH	33 CH	---	4 CH
Total	77 CH	65 CH	8 CH	4 CH

- Level 3, 4, and 5 (clinical stage)

Year	Total	Obligatory	Elective
3 rd year	40 CH	40 CH	-----
4 th year	48 CH	48 CH	-----
5 th year	46 CH	46 CH	-----
Total	134 CH	134 CH	-----

*Student must complete 211 Credit hours (CH)

D. Program courses

- Obligatory courses: First level:

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			

1	1	-----	2	2	3	Physics	SGS 111
2	1	-----	2	2	3	Physics	SGS 112
1	1	-----	2	3	4	Chemistry	SGS 121
2	1	-----	2	3	4	Chemistry	SGS 122
1	1	-----	2	2	3	Botany	SGS 131
2	1	-----	2	2	3	Botany	SGS 132
1	1	-----	2	2	3	Zoology	SGS 141
2	1	-----	2	2	3	Zoology	SGS 142
1	1	-----	4	1	3	Human Dentition	HPT 111
2	1	-----	4	1	3	Human Dentition	HPT 112
1	1	-----	-----	-----	2	English	ENG 101
2	1	-----	-----	-----	2	English	ENG 102
1	1	-----	-----	-----	2	Computer	CSC 101
1	1	-----	-----	-----	2	Human rights	PS 110
Total					40 CH		

• **Obligatory courses: second level:**

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			
1	2	-----	2	2	3	General Histology	SGS 251
1	2	-----	2	2	3	General Anatomy	SGS 271
2	2	-----	2	2	3	General Anatomy	SGS 272
1	2	-----	2	2	3	Biochemistry	SGS 261
2	2	-----	2	2	3	Biochemistry	SGS 262
1	2	-----	2	2	3	Human Physiology	SGS 281

2	2	-----	2	2	3	<i>Human Physiology</i>	SGS 282
1	2	-----	2	2	3	<i>Biomaterials</i>	PROS 241
2	2	-----	2	2	3	<i>Biomaterials</i>	PROS 242
1	2	-----	2	2	3	<i>Oral Histology</i>	HPT 221
2	2	-----	2	2	3	<i>Oral Histology</i>	HPT 222
Total					33 CH		

- **Elective courses: second level:**

	2	-----	-----	2	2	2 Elective subjects
	2			2	2	
Total					4 CH	

- **Obligatory courses: third level:**

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			
1	3	-----	4	1	3	<i>Operative</i>	CONS311
2	3	-----	4	1	3	<i>Operative</i>	CONS312
1	3	-----	4	1	3	<i>Crown</i>	PROS 321
2	3	-----	4	1	3	<i>Crown</i>	PROS 322
1	3	-----	4	1	3	<i>Prosthodontics</i>	PROS 311
2	3	-----	4	1	3	<i>Prosthodontics</i>	PROS 312

1	3	-----	2	1	2	<i>General Microbiology</i>	SGS 391
2	3	-----	2	1	2	<i>General Microbiology</i>	SGS 392
1	3	-----	2	2	3	<i>Pharmacology</i>	SGS 301
2	3	-----	2	2	3	<i>Pharmacology</i>	SGS 302
1	3	-----	2	2	3	<i>General Pathology</i>	SGS 372
2	3	-----	2	2	3	<i>General Pathology</i>	SGS 373
1	3	-----	2	2	3	<i>Oral Pathology</i>	HPT 331
2	3	-----	2	2	3	<i>Oral Pathology</i>	HPT 332
Total					40 CH		

- **Obligatory courses: fourth level:**

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			
1	4	-----	2	2	3	<i>General Medicine</i>	SGS 411
2	4	-----	2	2	3	<i>General Medicine</i>	SGS 412
1	4	-----	2	2	3	<i>General Surgery</i>	SGS 421
2	4	-----	2	2	3	<i>General Surgery</i>	SGS 422
1	4	-----	2	1	2	<i>Endodontics</i>	CONS 433
2	4	-----	2	1	2	<i>Endodontics</i>	CONS 434
1	4	-----	3	1	2	<i>Operative</i>	CONS 413
2	4	-----	3	1	2	<i>Operative</i>	CONS 414
1	4	-----	3	1	2	<i>Crown</i>	PROS 423
2	4	-----	3	1	2	<i>Crown</i>	PROS 424

1	4	-----	3	1	2	<i>Prosthodontics</i>	PROS 413
2	4	-----	3	1	2	<i>Prosthodontics</i>	PROS 414
1	4	-----	2	1	2	<i>Oral surgery</i>	OMF 411
2	4	-----	2	1	2	<i>Oral surgery</i>	OMF 412
1	4	-----	2	2	3	<i>Oral Medicine .periodontology.</i>	MPDR 411
2	4	-----	2	2	3	<i>Oral Medicine .Immunology.</i>	MPDR 412
1	4	-----	2	1	2	<i>Orthodontics</i>	ORP 431
2	4	-----	2	1	2	<i>Orthodontics</i>	ORP 432
1	4	-----	2	2	3	<i>Radiology</i>	MPDR 431
2	4	-----	2	2	3	<i>Oral Diagnosis</i>	MPDR 432
Total					48 CH		

- **Obligatory courses: Fifth level:**

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			
1	5	-----	3	1	2	<i>Endodontics</i>	CONS 534
2	5	-----	3	1	2	<i>Endodontics</i>	CONS 535
1	5	-----	6	1	3	<i>Operative</i>	CONS 515
2	5	-----	6	1	3	<i>Operative</i>	CONS 516
1	5	-----	6	1	3	<i>Crown</i>	PROS 525

2	5	-----	6	1	3	<i>Crown</i>	PROS 526
1	5	-----	6	1	3	<i>Prosthodontics</i>	PROS 515
2	5	-----	6	1	3	<i>Prosthodontics</i>	PROS 516
1	5	-----	3	2	3	<i>Oral surgery</i>	OMF 513
2	5	-----	3	2	3	<i>Oral surgery</i>	OMF 514
1	5	-----	3	2	3	<i>Oral Medicine</i>	MPDR 513
2	5	-----	3	1	3	<i>Oral Medicine</i>	MPDR 514
1	5	-----	3	1	2	<i>prevention</i>	ORP 511
2	5	-----	3	1	2	<i>prevention</i>	ORP 512
1	5	-----	3	1	2	<i>Implantology</i>	OMF 541
1	5	-----	2	1	2	<i>laser</i>	MPDR 551
1	5	-----	-----	2	2	<i>Forensic medicine</i>	MPDR 541
2	5	-----	-----	2	2	<i>Forensic medicine</i>	MPDR 542
Total					46 CH		

- **Elective courses:**

semester	year	Contact hours			Credit hours	Course name	Course code
		clinical	practical	theoretical			
3 OR 4	2	0	0	2	2	psychology	PSY101
3 OR 4	2	0	0	2	2	Sociology	SOC101
3 OR 4	2	0	0	2	2	Environmental sciences	ENV101
3 OR 4	2	0	0	2	2	Small project management	MGT100
3 OR 4	2	0	0	2	2	Business administration	BSA101

3 OR 4	2	0	0	2	2	Scientific thinking	CST101
3 OR 4	2	0	0	2	2	Computer applications	CSC102

5. Courses Contents: Annex 5 (Courses specifications)

6. Program admission requirements:

- It is determined on the bases of scores obtained in Secondary school degree and other equivalent degrees from Egypt and other countries. The required scores are yearly determined by the higher council of private university in Egypt.
- Future University in Egypt admits applicants seeking to apply for the fall and spring semesters, according to the regulations of the Egyptian Ministry of Higher Education.
- All qualified applicants must sit for an English Placement Test (EPT) upon which the level of English Language of each student is determined. Students must complete all the admission procedures which include a medical examination conducted by the university.
- Faculty of Oral & Dental Medicine accepts various types of high school certificates that are calculated according to the regulations set by the Supreme Council of the Egyptian Universities. The certificates must show that the applicant has studied Chemistry, Physics and Biology among other subjects.

7. Regulations for progression and program completion:

- Attendance of lectures, labs and clinics is considered to be an important issue in the educational process inside the faculty, as the student gets benefits from the interaction inside the class room between him and the staff members, teaching assistants and colleagues. Therefore, students should attend regularly so that their grades are not affected by their absences.
- Students that do not attend a term exam without an excuse that his/her academic advisor and the course's instructor agree upon are not given a make-up examination.
- Students may be forced to withdraw from a course if the absence ratio exceeded 25% of the lectures, labs and clinics during the first 10 weeks of the semester, but if the absence ratio exceeded 25% after the first 10 weeks, students are not allowed to withdraw the course, attending lectures or attending the final term examination. The student gets grade (F) in this course. The students have to be warned at least once before preventing them from attending the examination.
- The Final exam may be postponed for a student till the start of the next semester if he/she has an

excuse accepted by the faculty council. In this case, the semester work mark is kept, and the student is allowed to enter the final exam at the beginning of the next semester, and gets a final grade (Incomplete) in this course in the semester in which he/she did not sit for the examination. This incomplete grade is changed to the actual grade obtained by the student in the postponed examination.

• **Semester Withdrawal:**

- The student has the right to withdraw from an academic semester within the withdrawal period announced in the academic calendar of the semester.
- The student will be considered to have failed if he withdraws after the aforementioned period, unless he/she has a valid reason which is acceptable to his advisor, and the faculty Dean.

8. Methods of students' assessment:

Method	Measured Intended Learning Outcomes (ILOs)
Written examination:	To assess: <ul style="list-style-type: none"> ▪ Knowledge & understanding: (a.1 to a.19) ▪ Intellectual skills: (B.1.to B.9)
Oral examination:	To assess: <ul style="list-style-type: none"> ▪ Knowledge & understanding: (a.1 to a.19) ▪ Intellectual skills: (B.1.to B.9) ▪ General & transferable skills: (d.1 to d.10)
Practical & clinical examination	To assess: <ul style="list-style-type: none"> ▪ Knowledge & understanding: (a.1 to a.19) ▪ Intellectual skills: (B.1.to B.9) ▪ Professional skills & attitude (c.1 to c.9) ▪ General & transferable skills: (d.1 to d.10)

9. Evaluation of program:

Evaluator	Tool	Sample
1. Senior students	Questionnaire	25%
2. Alumni	Questionnaire , Meeting	20%
3. Stakeholders	Questionnaire , Meeting	Samples from all sectors
4. External Evaluator(s)	Report	1-2 reports
5. Internal Evaluator(s)	Report	1-2 reports
6. Analysis of student final results	Report	Annual

10. Program learning strategies:

1. Active learning
2. Outcome-based learning
3. Problem-solving learning
4. Cooperative-based learning
5. Self-learning

Program Coordinator:

- **Name:** Professor: Nivine Ragy, vice dean of education & students affairs.

- **Signature:** ----- **Date:** 9-10-2017

Annex

- **Annex 1: National Academic Reference Standards (NARS)**
- **Annex 2 : program aims and ILOs vs NARS**
- **Annex 3: Program Aims vs program ILOs**
- **Annex 4: Program Courses vs program ILOs**
- **Annex 5: Courses Specifications:**
 - **Faculty requirements**
 - **University requirements**
 - **Elective courses**

Annex 1: National Academic Reference Standards (NARS)

National Academic Reference Standards (NARS)

1. Attributes of the Graduates of Dental Medicine

The graduate must be able to:

- 1.1. Deliver independently oral health care services within the scope of general dentistry
- 1.2. Provide ethical professional practice including compassion, empathy, integrity, responsibility and tolerance.
- 1.3. Provide comprehensive practice management encompassing patient assessments, and maintain patient's records in complete and accurate forms.
- 1.4. Communicate effectively to develop a mature, sensitive and caring relationship with their patients.
- 1.5. Respond to socio-economic aspects of different communities and engage effectively in community services.
- 1.6. Maintain a safe and infection-controlled environment.
- 1.7. Realize the importance of lifelong learning and strive for continuous professional education.
- 1.8. Recognize the various features of medico-legal aspects of the dental profession.
- 1.9. Recognize the limitation of their current knowledge and clinical abilities and realize the need for proper referral.
- 1.10. Evaluate and respond to ongoing dental technology.

2. Knowledge and Understanding

Upon completion of an undergraduate dental program, the graduate must know and understand the biomedical, dental, and behavioral sciences that form the basis of human health and disease including:

- 2.1. The interrelationship between different systems of the human body.
- 2.2. The principles of pathogenic mechanisms and manifestations of human diseases which are of dental significance.
- 2.3. Basis and significance of oral health promotion, nutritional education and prevention of oral diseases in population based approaches.
- 2.4. Prevention and management of medical emergencies.
- 2.5. Maintenance of infection control and a safe working environment.
- 2.6. Basis of practice management.
- 2.7. Principles of evidence-based dentistry and its relation to scientific research.

- 2.8. Ethical and medico-legal aspects relevant to the practice of dentistry and research.
- 2.9. Social and psychological issues relevant to dental care with emphasis on behavioral management.

3. Practical and Clinical Skills

The graduate must be able to:

- 3.1. Establish a comprehensive patient's history, perform clinical examination, request and evaluate appropriate investigations.
- 3.2. Review the body systems and consult with other health care professionals, when required.
- 3.3. Detect abnormal and pathological conditions, as well as etiological and/or risk factors that may contribute to disease process.
- 3.4. Perform a range of clinical procedures which are within the scope of general dentistry, including:
 - 3.4.1. Applications of preventive procedures.
 - 3.4.2. Application of different local anesthetic techniques.
 - 3.4.3. Extraction of teeth and removal of roots when necessary.
 - 3.4.4. Diagnosis of commonly encountered oral lesions.
 - 3.4.5. Performance of the necessary radiographs.
 - 3.4.6. Performance of non-surgical periodontal treatment and monitor treatment outcomes.
 - 3.4.7. Restoration of carious and non-carious tooth defects with emphasis on basic concepts of esthetics.
 - 3.4.8. Basic endodontic procedures.
 - 3.4.9. Rehabilitation of partially and completely edentulous patients.
 - 3.4.10. Diagnosis and prevention of developing malocclusions.
 - 3.4.11. Basic endodontic treatment.
- 3.5. Apply current infection control guidelines.
- 3.6. Control different levels of patient's anxiety and apprehension in different age groups.
- 3.7. Manage dental and medical emergencies which may occur in dental practice and perform basic life support measures.
- 3.8. Prescribe and monitor the effects of appropriate pharmaceutical agents taking into consideration drug and patient factors.

4. Intellectual Skills

The dental graduate must be able to:

- 4.1. Integrate basic biomedical, behavioral and dental sciences with signs, symptoms and physical findings of the disease.
- 4.2. Differentiate between normal and abnormal features that are particularly relevant to dental practice.
- 4.3. Identify, prioritize and generate a list of potential patient's clinical problems.
- 4.4. Analyze, interpret, and integrate collected diagnostic data to solve clinical problems based on current evidence.
- 4.5. Design appropriate treatment plans for different dental problems.
- 4.6. Assess and evaluate the effects of medications taken by the patient on dental management.
- 4.7. Reason deductively in clinical problem solving.

5. General and Transferable Skills

The dental graduate must be able to:

- 5.1. Work in collaboration as a member of an interdisciplinary team.
- 5.2. Communicate effectively in multicultural work environment using verbal and non-verbal means.
- 5.3. Recognize and effectively utilize all sources for continuing professional development and life-long learning.
- 5.4. Adopt a creative attitude in an ethical and scientific approach.
- 5.5. Self evaluate professional abilities, performance, and progress.
- 5.6. Recognize professional responsibility towards the surrounding community.
- 5.7. Use information technologies to enrich and diversify professional experience.
- 5.8. Recognize the basic concepts of quality assurance and practice management.
- 5.9. Prioritize workload and manage personal stress in the framework of proper performance and management.

Curriculum Structure

The percentages mentioned in the following table for each area of study are just a guide for the faculty and not obligatory to follow.

Table 1: Percentages of areas of study

Subjects	Range	Characterization
Basic sciences	28%-32%	*All basic sciences including basic medical and dental sciences.
Medical and Dental sciences A- Didactic B- Laboratory &clinical	21%-25% 33%-37%	**All dental and medical sciences.
Complementary sciences	5%-8%	Behavioral science Law, Ethics and Professionalism Information Technology
Subtotal		
• Discretionary subjects	6-8%	
Total	100%	

- Allowed to each faculty to use based on its mission

*Physics, Chemistry, Bioscience, Human Anatomy, Growth and Genetics, Physiology, Biochemistry, Microbiology and Immunology, General Histology, Pharmacology, General Pathology, Oral Biology, Dental Anatomy and Oral Physiology, Dental Biomaterials and Oral Pathology.

** Internal medicine, General surgery, Restorative Dentistry, prothodontics, Oral and maxillofacial Surgery and General Anesthesia, Diagnostic Sciences, Oral Medicine, Oral Maxillofacial Radiology, Periodontics, Endodontic, Orthodontics and Dentofacial Orthopedics, Pediatric Dentistry, Public Health and Community Dentistry

Annex 2: Program aims and ILOs vs NARS

Aims of program vs attributes of NARS:

NARS Attributes	Program Aims								
	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
1.1	√	√							
1.2				√					
1.3	√	√							
1.4					√				
1.5							√		
1.6								√	
1.7									√
1.8				√					
1.9			√						
1.10							√		

A-Knowledge and understanding of program vs NARS:

NARS	Program ILOs																		
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	a15	a16	a17	a18	a19
2.1	√	√		√			√												
2.2					√	√													
2.3								√	√	√		√							
2.4	√														√				
2.5						√												√	
2.6											√					√	√		
2.7														√					√
2.8																	√		
2.9													√						

B. Intellectual skills of program vs NARS:

NARS	Program ILOs								
	b1	b2	b3	b4	b5	b6	b7	b8	b9
4.1	√							√	
4.2	√								
4.3		√							
4.4			√						√
4.5				√			√		
4.6					√		√		
4.7						√			√

C. Practical and clinical skills of program vs NARS:

NARS	Program ILOs								
	C1	C2	C3	C4	C5	C6	C7	C8	C9
3.1	√								
3.2			√						
3.3				√					
3.4					√				
3.5						√			
3.6							√		
3.7								√	
3.8		√							√

D- Transferrable skills:

NARS	Program ILOs									
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
5.1			√							
5.2	√	√		√						
5.3					√					
5.4						√				
5.5							√			
5.6								√		
5.7									√	
5.8										√
5.9										√

Annex 3: Aims of program vs program ILOs

ILOs	Program aims								
	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
a1	√								
A2	√								
A3	√								
A4	√								
A5	√								
A6	√								
A7	√								
A8	√								
A9	√						√		
A10	√						√		
a11	√	√				√			
a12	√	√							
A13	√	√							
A14	√								
A15	√	√							
A16	√			√					
A17	√	√							
A18	√	√						√	
A19	√								√
B1	√	√							
B2	√	√							
B3	√	√							

B4	√	√							
B5	√	√							
B6	√	√							
B7	√	√							
B8	√					√			
B9	√	√							
C1	√	√							
C2	√	√							
C3	√	√	√						
C4	√	√							
C5	√	√				√			
C6	√	√							
C7	√	√							
C8	√	√							
D1	√	√				√			
D2	√	√				√			
D3	√					√			
D4	√					√			
D5	√								√
D6	√				√				
D7	√			√					√
D8	√								
D9	√								√
D10	√								

Annex 4: Courses vs program ILOs

A-Knowledge and understanding:

Courses	Program ILOs																		
	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	A 14	A 15	A 16	A 17	A 18	A 19
General Physics SGS 111			√											√					
General Physics SGS 112			√											√					
Chemistry SGS 121	√																		
Chemistry SGS 122	√																		
Zoology SGS 141		√	√	√															
Zoology SGS 142		√	√	√															
Botany & Genetics SGS 131		√	√																
Botany & Genetics SGS 132		√	√																
General Anatomy SGS 271		√		√															
General Anatomy SGS 272		√		√															
General Histology SGS 251				√															
General Physiology SGS 281		√		√															
General Physiology SGS 282		√		√															
Biochemistry SGS 261			√	√															
Biochemistry SGS 262			√	√															
Dental Anatomy & Physiology HPT 111		√					√	√											
Dental Anatomy & Physiology HPT 112		√					√	√											
Dental Biomaterials PROS 241			√								√	√							
Dental Biomaterials PROS 242			√								√	√							
Technology of Removable Prosthodontics PROS 311												√							

Technology of Removable Prosthodontics PROS 312											√								
Technology of conservative Dentistry CONS 311											√								
Technology of conservative Dentistry CONS 312											√								
Technology of Crown& Bridge PROS 321											√						√		
Technology of Crown& Bridge PROS 322											√						√		
Oral Histology HPT221				√			√	√		√									
Oral Histology HPT222				√			√	√		√									
General Pathology SGS 372					√														
General Pathology SGS 373					√														
General Microbiology SGS 391					√	√													√
General Microbiology SGS 392					√	√													√
Pharmacology SGS 301	√			√														√	
Pharmacology SGS 302	√			√														√	
Oral pathology HPT 331					√	√													
Oral pathology HPT 332					√	√													
Orthodontics ORP 431				√							√								√
Orthodontics ORP 432				√							√								√
General medicine & skin venereal SGS 411					√							√			√				
General medicine & skin venereal SGS 412					√							√			√				
General SURGERY& Ent & ophthalmology SGS 421					√														√
General SURGERY& Ent & ophthalmology SGS 421					√														√
Removable Prosthodontics PROS 413											√	√							√

Removable Prosthodontics PROS 414										√	√						√		
Conservative Dentistry CONS 413					√			√			√							√	
Conservative Dentistry CONS 414					√			√			√							√	
Crown & Bridge PROS 423										√								√	
Crown & Bridge PROS 424										√								√	
Technology of Endodontics CONS 433										√	√				√				
Technology of Endodontics CONS 434										√	√				√				
Oral Surgery & anesthesia OMF 411											√			√	√			√	√
Oral Surgery & anesthesia OMF 412											√			√	√			√	√
Oral Medicine & Periodontology MPDR 411					√	√					√			√	√			√	√
Oral Medicine & Periodontology MPDR 412					√	√					√			√			√	√	√
Oral Diagnosis& Radiology MPDR 431											√						√	√	
Oral Diagnosis& Radiology MPDR 432											√			√					
Endodontics CONS 534										√							√	√	
Endodontics CONS 535										√							√	√	
Conservative dentistry CONS 515										√							√	√	
Conservative dentistry CONS 516										√							√	√	
Crown and bridge PROS 525							√			√							√	√	
Crown and bridge PROS 526							√			√							√	√	
Removable prosthodontics PROS 515							√			√	√						√	√	
Removable prosthodontics PROS 516							√			√	√						√	√	
oral and maxillofacial surgery and anesthesia OMF 513						√					√			√	√		√	√	

oral and maxillofacial surgery and anesthesia OMF 514						√					√			√		√	√	
Oral Medicine & Periodontology MPDR 513						√					√			√		√	√	
Oral Medicine & Periodontology MPDR 514						√					√			√		√	√	
Pedodontics and public health ORP 511						√		√	√	√	√	√				√	√	
Pedodontics and public health ORP 512						√		√	√	√	√	√				√	√	
Dental ethics and forensic & report writing MPRD 541								√	√			√			√	√		
Dental ethics and forensic & report writing MPRD 542								√	√			√			√	√		
Laser applications MPDR 551				√														
Implantology OMF 541																		

B. Intellectual skills

Courses	Program ILOs								
	b1	b2	b3	b4	b5	b6	b7	b8	b9
General Physics SGS 111								√	
General Physics SGS 112								√	
Chemistry SGS 121								√	
Chemistry SGS 122								√	
Zoology SGS 141								√	
Zoology SGS 142								√	
Botany & Genetics SGS 131								√	
Botany & Genetics SGS 132								√	
General Anatomy SGS 271								√	
General Anatomy SGS 272								√	
General Histology SGS 251								√	
General Physiology SGS 281								√	
General Physiology SGS 282								√	
Biochemistry SGS 261									
Biochemistry SGS 262									
Dental Anatomy & Physiology HPT 111	√								
Dental Anatomy & Physiology HPT 112	√								
Dental Biomaterials PROS 241								√	
Dental Biomaterials PROS 242								√	
Technology of Removable								√	

Prosthodontics PROS 311									
Technology of Removable Prosthodontics PROS 312								√	
Technology of conservative Dentistry CONS 311								√	
Technology of conservative Dentistry CONS 312								√	
Technology of Crown& Bridge PROS 321								√	
Technology of Crown& Bridge PROS 322								√	
Oral Histology HPT 221									
Oral Histology HPT 222									
General Pathology SGS 372	√								
General Pathology SGS 373	√								
General Microbiology SGS 391									
General Microbiology SGS 392									
Pharmacology SGS 301					√		√		
Pharmacology SGS 302					√		√		
Oral pathology HPT 331	√		√						
Oral pathology HPT 332	√		√						
Orthodontics ORP 431	√	√		√				√	
Orthodontics ORP 432	√	√		√				√	
General medicine & skin & venereal SGS 411							√		
General medicine & skin & venereal SGS 412							√		
General SURGERY& Ent & ophthalmology SGS 421							√		
General SURGERY& Ent & ophthalmology SGS 421							√		
Removable Prosthodontics PROS 413				√		√		√	√
Removable Prosthodontics PROS 414				√		√		√	√
Conservative Dentistry CONS 413		√	√	√		√		√	
Conservative Dentistry CONS 414		√	√	√		√		√	
Crown & Bridge PROS 423				√		√		√	
Crown & Bridge PROS 424				√		√		√	
Technology of Endodontics CONS 433								√	
Technology of Endodontics CONS 434								√	
Oral Surgery & anesthesia OMF 411	√	√	√	√	√	√	√		√
Oral Surgery & anesthesia OMF 412		√	√	√	√	√	√		√
Oral Medicine & Periodontology MPDR 411	√	√	√	√	√	√	√		√
Oral Medicine & Periodontology MPDR 412	√	√	√	√	√	√	√		√
Oral Diagnosis& Radiology MPDR 431	√	√	√	√					

Oral Diagnosis& Radiology MPDR 432	√	√	√	√					
Endodontics CONS 534		√	√	√	√	√	√	√	√
Endodontics CONS 535		√	√	√	√	√	√	√	√
Conservative dentistry CONS 515		√	√	√		√			
Conservative dentistry CONS 516		√	√	√		√			
Crown and bridge PROS 525		√	√	√		√			
Crown and bridge PROS 526		√	√	√		√			
Removable prosthodontics PROS 515		√	√	√		√			√
Removable prosthodontics PROS 516		√	√	√		√			√
oral and maxillofacial surgery and anesthesia OMF 513	√	√	√	√	√	√	√		√
oral and maxillofacial surgery and anesthesia OMF 514	√	√	√	√	√	√	√		√
Oral Medicine & Periodontology MPDR 513	√	√	√	√	√	√	√		√
Oral Medicine & Periodontology MPDR 514	√	√	√	√	√	√	√		√
Pedodontics and public health ORP 511	√	√	√	√	√	√	√		
Pedodontics and public health ORP 512	√	√	√	√	√	√	√		
Dental ethics and forensic & report writing MPRD 541									
Dental ethics and forensic & report writing MPRD 542									
Laser applications MPDR 551		√		√					
Implantology OMF 541		√	√	√	√	√	√		

C- Professional and practical skills

Courses	Program ILOs								
	c1	c2	c3	c4	c5	c6	c7	c8	C9
General Physics SGS 111									
General Physics SGS 112									
Chemistry SGS 121									
Chemistry SGS 122									
Zoology SGS 141									
Zoology SGS 142									
Botany & Genetics SGS 131									
Botany & Genetics SGS 132									
General Anatomy SGS 271									
General Anatomy SGS 272									
General Histology SGS 251									
General Physiology SGS 281				√					
General Physiology SGS 282				√					
Biochemistry SGS 261	√			√					
Biochemistry SGS 262	√			√					
Dental Anatomy& Physiology HPT 111	√								

Dental Anatomy& Physiology HPT 112	√								
Dental Biomaterials PROS 241									
Dental Biomaterials PROS 242									
Technology of Removable Prosthodontics PROS 311	√			√					
Technology of Removable Prosthodontics PROS 312	√			√					
Technology of conservative Dentistry CONS 311	√								
Technology of conservative Dentistry CONS 312	√								
Technology of Crown& Bridge PROS 321	√			√				√	
Technology of Crown& Bridge PROS 322	√			√				√	
Oral Histology HPT 221									
Oral Histology HPT 222									
General Pathology SGS 372		√	√						
General Pathology SGS 373		√	√						
General Microbiology SGS 391		√	√		√			√	
General Microbiology SGS 392		√	√		√			√	
Pharmacology SGS 301		√	√	√				√	√
Pharmacology SGS 302		√	√	√				√	√
Oral pathology HPT 331	√	√	√	√					
Oral pathology HPT 332	√	√	√	√					
Orthodontics ORP 431	√	√	√	√					
Orthodontics ORP 432	√	√	√	√					
General medicine & skin & venereal SGS 411	√	√	√		√				
General medicine & skin & venereal SGS 412	√	√	√		√				
General SURGERY& Ent & ophthalmology SGS 421	√	√	√						
General SURGERY& Ent & ophthalmology SGS 421	√	√	√						
Removable Prosthodontics PROS 413				√					
Removable Prosthodontics PROS 414				√					
Conservative Dentistry CONS 413		√	√	√					
Conservative Dentistry CONS 414		√	√	√					
Crown & Bridge PROS 423				√	√	√			
Crown & Bridge PROS 424				√	√	√			
Technology of Endodontics CONS 433				√					
Technology of Endodontics CONS 434				√					
Oral Surgery & anesthesia OMF 411	√	√	√	√	√	√	√	√	√
Oral Surgery & anesthesia OMF 412	√	√	√	√	√	√	√	√	√

Oral Medicine & Periodontology MPDR 411	√	√	√	√	√	√	√	√	
Oral Medicine & Periodontology MPDR 412	√	√	√	√	√	√	√	√	
Oral Diagnosis& Radiology MPDR 431	√	√	√	√		√			
Oral Diagnosis& Radiology MPDR 432	√	√	√	√		√			
Endodontics CONS 534				√	√				
Endodontics CONS 535				√	√				
Conservative dentistry CONS 515									
Conservative dentistry CONS 516									
Crown and bridge PROS 525				√	√	√			
Crown and bridge PROS 526				√	√	√			
Removable prosthodontics PROS 515									
Removable prosthodontics PROS 516									
oral and maxillofacial surgery and anesthesia OMF 513	√	√	√	√	√	√	√	√	
oral and maxillofacial surgery and anesthesia OMF 514	√	√	√	√	√	√	√	√	
Oral Medicine & Periodontology MPDR 513	√	√	√	√	√	√	√	√	
Oral Medicine & Periodontology MPDR 514	√	√	√	√	√	√	√	√	
Pedodontics and public health ORP 511	√	√	√	√	√	√	√	√	
Pedodontics and public health ORP 512	√	√	√	√	√	√	√	√	
Dental ethics and forensic & report writing MPRD 541				√					
Dental ethics and forensic & report writing MPRD 542				√					
Laser applications MPDR 551					√				
Implantology OMF 541					√				

D- General and transferable skills

Courses	Program ILOs									
	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
General Physics SGS 111					√	√	√			
General Physics SGS 112					√	√	√			
Chemistry SGS 121					√	√	√			
Chemistry SGS 122					√	√	√			
Zoology SGS 141					√	√	√			
Zoology SGS 142					√	√	√			
Botany & Genetics SGS 131					√	√	√			
Botany & Genetics SGS 132					√	√	√			
General Anatomy SGS 271					√	√	√			
General Anatomy SGS 272					√	√	√			
General Histology SGS 251					√	√	√			
General Physiology SGS 281					√	√	√			
General Physiology SGS 282					√	√	√			

Biochemistry SGS 261					√	√	√			
Biochemistry SGS 262					√	√	√			
Dental Anatomy& Physiology HPT 111					√	√	√			
Dental Anatomy& Physiology HPT 112					√	√	√			
Dental Biomaterials PROS 241					√	√	√		√	√
Dental Biomaterials PROS 242					√	√	√		√	√
Technology of Removable Prosthodontics PROS 311					√	√	√			
Technology of Removable Prosthodontics PROS 312					√	√	√			
Technology of conservative Dentistry CONS 311					√	√	√		√	
Technology of conservative Dentistry CONS 312					√	√	√		√	
Technology of Crown& Bridge PROS 321					√	√	√		√	
Technology of Crown& Bridge PROS 322					√	√	√		√	
Oral Histology HPT 221					√	√	√			
Oral Histology HPT 222					√	√	√			
General Pathology SGS 372			√		√	√	√			
General Pathology SGS 373			√		√	√	√			
General Microbiology SGS 391			√		√	√	√			
General Microbiology SGS 392			√		√	√	√			
Pharmacology SGS 301			√		√	√	√			
Pharmacology SGS 302			√		√	√	√			
Oral pathology HPT 331			√	√	√	√	√	√		√
Oral pathology HPT 332			√	√	√	√	√	√		√
Orthodontics ORP 431	√	√	√	√	√	√	√	√		√
Orthodontics ORP 432	√	√	√	√	√	√	√	√		√
General medicine & skin & venereal SGS 411	√		√		√	√	√			√
General medicine & skin & venereal SGS 412	√		√		√	√	√			√
General SURGERY& Ent & ophthalmology SGS 421			√		√	√	√			√
General SURGERY& Ent & ophthalmology SGS 421			√		√	√	√			√
Removable Prosthodontics PROS 413	√	√	√		√	√	√		√	
Removable Prosthodontics PROS 414	√	√	√		√	√	√		√	
Conservative Dentistry CONS 413	√	√	√	√	√	√	√		√	√
Conservative Dentistry CONS	√	√	√	√	√	√	√		√	√

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Crown & Bridge PROS 423	√	√	√	√	√	√	√		√	√
Crown & Bridge PROS 424	√	√	√	√	√	√	√		√	√
Technology of Endodontics CONS 433					√	√	√		√	
Technology of Endodontics CONS 434					√	√	√		√	
Oral Surgery & anesthesia OMF 411	√	√	√	√	√	√	√		√	√
Oral Surgery & anesthesia OMF 412	√	√	√	√	√	√	√		√	√
Oral Medicine & Periodontology MPDR 411	√	√	√	√	√	√	√		√	√
Oral Medicine & Periodontology MPDR 412	√	√	√	√	√	√	√		√	√
Oral Diagnosis& Radiology MPDR 431	√		√	√	√	√	√		√	√
Oral Diagnosis& Radiology MPDR 432	√		√	√	√	√	√		√	√
Endodontics CONS 534	√	√	√	√	√	√	√		√	√
Endodontics CONS 535	√	√	√	√	√	√	√		√	√
Conservative dentistry CONS515				√		√			√	
Conservative dentistry CONS516				√		√			√	
Crown and bridge PROS 525				√		√			√	
Crown and bridge PROS 526				√		√			√	
Removable prosthodontics PROS 515				√		√			√	
Removable prosthodontics PROS 516				√		√			√	
oral and maxillofacial surgery and anesthesia OMF 513	√	√	√	√	√	√	√		√	√
oral and maxillofacial surgery and anesthesia OMF 514	√	√	√	√	√	√	√		√	√
Oral Medicine & Periodontology MPDR 513	√	√	√	√	√	√	√		√	√
Oral Medicine & Periodontology MPDR 514	√	√	√	√	√	√	√		√	√
Pedodontics and public health ORP 511	√	√	√	√	√	√	√		√	√
Pedodontics and public health ORP 512	√	√	√	√	√	√	√		√	√
Dental ethics and forensic & report writing MPRD 541	√		√	√	√	√	√		√	√
Dental ethics and forensic & report writing MPRD 542	√		√	√	√	√	√		√	√
Laser applications MPDR 551					√	√			√	
Implantology OMF 541	√	√			√	√			√	

Annex 5: Courses Specifications

Faculty of Oral and Dental Medicine

Course Specifications for Physics I

Program (s) on which the course is given Bachelor of Oral and Dental medicine and surgery (BDS)

Department offering the course supplementary sciences
Academic year/Level 1st semester

A- Basic Information

Title: Physics		Code: SGS 111	
Credit hours: 3			
Lectures: 2 (hrs/week)	Practical: 1 (hrs/week)	Tutorial: 1 (hrs/week)	Total: 4 (hrs/week)

B- Professional Information

1- Overall aims of course

- To present the basic concepts and principles of the topics as physics and measurements, vectors, fluids mechanics, elastic properties of matter, temperature, heat and the laws of thermodynamics, sound wave..
- To **strengthen** an understanding of the concepts and principles through a broad range of interesting applications in the real world.
- To develop the student's capacity of critical thinking and problem solving.
- To introduce the basics of experimentation, including rudimentary statistics.

2- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding

By the end of this course students will be able to:

- a1- Recognize the vectors properties, polar and Cartesian coordinates, addition and subtraction of vectors.
- a2- Describe the mechanics of a fluid at rest- that is, fluid statics, and treat the mechanics of fluid in motion, fluid dynamics; describe a fluid in motion by using a model that is based upon certain simplifying assumption.
- a3- Define the definition of heat, temperature and basic thermal properties of materials; understand the mechanisms and effect of heat transfer.
- a4- Define and apply the laws of thermodynamics with particular attention to cyclic processes.
- a5- Define and apply the Carnot cycle laws of thermodynamics with particular attention to cyclic processes of Carnot heat engine and Carnot heat pump.
- a6- Describe sound and its properties (power, intensity level, Doppler effect).

b- Intellectual skills**By the end of this course students will be able to:**

- b1- Use of significant figure and units & dimensions.
- b2- Solve presenting problems solutions.
- b3- Complete the scientific process; identify a problem; make predictions and develop a testable hypothesis.
- b4- Use of appropriate verbal, graphical and mathematical descriptions of physical phenomena.

c- Professional and practical skills**By the end of this course students will be able to:**

- c1- Design an experimental investigation; collect, organize and analyze experimental data, recognizing the inherent uncertainty in all measurements and their effect on calculated quantities; draw conclusions supported by the data; present results.

d- General and transferable skills**By the end of this course students will be able to:**

- d1- develop the confidence to try different approaches in order to make progress on challenging problems.
- d2- develop the skills of independent investigation. Student will generally have experience of using textbooks, and other available literature, of searching databases and of interacting with colleagues to extract information.
- d3- develop the ability to listen carefully, to read demanding text, and to present complex information in a clear and concise manner.
- d4- Encourage collaborative teamwork, a skill that is an essential feature of science.
- d5- develop their ability to work independently, to use their initiative, to organize themselves to meet deadlines, and to interact constructively with other people.

3- Contents

Topic	Total (Hours)	Lecture (Hours)	Tutorial/practical (Hours)
3.1 Physics and Measurements			
3.1.1 Standard of length, Mass, and Time			
3.1.2 Density and Atomic Mass			
3.1.3 Dimensional Analysis	3	2	1
3.1.4 Conversion of Units			
3.1.5 Estimates and Order of Magnitude Calculation			
3.1.6 Significant Figures			
3.2 Vectors			
3.2.1 Coordinate systems			
3.2.2 Vectors and Scalar Quantities	3	2	1
3.2.3 Some Properties of Vectors			
3.2.4 Components of a Vector and a unit Vectors			

3.3 Fluid Mechanics 3.3.1 Pressure 3.3.2 Variation of Pressure With Depth 3.3.3 Pressure Measurements 3.3.4 Buoyant Forces and Archimedes' s Principles 3.3.5 Fluid Dynamics 3.3.6 Bernoulli' s Equation	5	2	1 / 2
3.4 Static Equilibrium and Elasticity 3.4.1 The Conditions for Equilibrium 3.4.2 Examples of Rigid Objects in Static Equilibrium 3.4.3 Elastic Properties of Solid	5	2	1 / 2
3.5 Temperature 3.5.1 Temperature and the Zeroth Law of Thermodynamics 3.5.2 Thermometers and Celsius Temperature Scale 3.5.3 The constant – Volume Gas Thermometer and the Absolute Temperature Scale 3.5.4 Thermal Expansion of Solids and Liquids 3.5.5 Macroscopic Description of an Ideal Gas	5	2	1 / 2
3.6 Heat and the Laws of Thermodynamics 3.6.1 Heat and Internal Energy 3.6.2 Specific Heat and Calorimetry 3.6.3 Latent Heat 3.6.4 The First Law of Thermodynamics 3.6.5 Some Applications of the first Law of Thermodynamics 3.6.6 Energy Transfer Mechanisms 3.6.7 Heat Engines and the Second Law of Thermodynamics 3.6.8 Heat Pumps and Refrigerators 3.6.9 Carnot Engine 3.6.10 Entropy	10	4	2 / 4
3.7 Sound Wave 3.7.1 Speed of Sound Wave 3.7.2 Periodic Sound Wave 3.7.3 Intensity of Periodic Sound Wave 3.7.4 The Doppler Effect	5	2	1 / 2

4- Teaching and learning methods

- 4.1- Lectures
- 4.2- Homework (assignments).
- 4.3- Quizzes.
- 4.4- Physics Lab.
- 4.5- Recitation (problem solving session)

5- Student assessment methods

- 5.1- Quizzes and examinations to assess a student's understanding of the concepts in the course, and utilizing skill and knowledge that have acquired over the semester.
- 5.2- Laboratory reports to asses presentation of the reports, making and interpreting graphs, and applying rudimentary statistics.
- 5.3- Recitation to assess the ability to solve new problems, to develop mathematical models, to complete calculations, and to communicate physical arguments.

Assessment schedule

Assessment 1	Quizzes	Every Two Weeks
Assessment 2	1 st Mid Term Exam	Week 6
Assessment 3	2 nd Mid Term Exam	Week 10
Assessment 3	Laboratory Reports	Every Week
Assessment 4	Final Practical Exam	Week 13
Assessment 5	Final Exam	Week 14

Weighting of assessments

1 st Mid-term examination	20 points	20 %
1 st Mid-term examination	20 points	20 %
Final- examination	40 points	40 %
Practical examination	10 points	10 %
Quizzes& Assignments	5 points	5 %
<u>Attendance</u>	<u>5 points</u>	<u>5 %</u>
Total	100 points	100 %

6- List of reference

6.1- Course notes

- 6.1.1 Instructors notes
- 6.1.2 Tutorial solving problem notes
- 6.1.3 Laboratories Notes

6.2- Essential books (text books)

Raymond A. Serway “Physics for scientists and engineers with modern physics” 9th edition, 2013.

6.3- Recommended books

- D. Halliday, R. Resnick, and J. Walker: “Fundamentals of Physics” Extended with modern Physics, 10th edition, John Wiley & Sons Inc., New York, 2014.
- College Physics by Giambattista & Richardson, 2004

6.4- Web sites <http://www.thomsonedu.com/thomsonnow>

7- Facilities required for teaching and learning

- 7.1- Physics
- 7.2- Data Show
- 7.3- Overhead Projector
- 7.4 - Video Tape

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstrations
4-3	Role playing and hands on
4-4	Small group discussion

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			√
	a2	√			√
	a3	√			√
	a4	√			√
	a5	√			√
	a6	√			√
b	b1		√	√	
	b2		√	√	
	b3		√	√	
	b4		√	√	
c	c1		√	√	
d	d1		√	√	
	d2		√	√	
	d3		√	√	
	d4		√	√	
	d5		√	√	

Assessment methods:

Code	Assessment Method
5-1	Written examination short questions, multiple choice assignments, quizzes.
5-2	Oral examination.
5-3	Practical exam.

Assessment Plan:

ILOs		5-1	5-2	5-3
a	a1	√	√	
	a2	√	√	
	a3	√	√	
	a4	√	√	
	a5	√	√	
	a6	√	√	
b	b1			√
	b2			√
	b3			√
	b4			√
c	c1			√
d	d1			√
	d2			√
	d3			√
	d4			√
	d5			√

Course coordinator: Prof. Dr. Ashraf El-Sherif

Head of Department:

Date: 4 / 9 / 2017

Faculty of Oral and Dental Medicine

Course Specifications for Physics II

Program (s) on which the course is given Bachelor of Oral and Dental medicine and surgery (BDS)

Department offering the course supplementary sciences
Academic year/Level 2nd semester

A- Basic Information

Title: Physics		Code: SGS 112	
Credit hours: 3			
Lectures: 2 (hrs/week)	Practical: 1 (hrs/week)	Tutorial: 1 (hrs/week)	Total contact hours: 4 (hrs/week)

B- Professional Information

1- Overall aims of course

- To present basic concepts and principles of topics as electric field, Gauss' law, electric potential, capacitance, resistance, direct current circuits, magnetic field, Biot – Savart and Ampere's laws, Faraday ' s law.
- To Strengthen an understanding of the concepts and principles through a broad range of interesting applications in the real world.
- To Develop the student's capacity of critical thinking and problem solving.
- To continue development of experimental investigation and data analysis skills.

2- Intended learning outcomes of course (ILOs)

By the end of this course students will be able to:

a- Knowledge and understanding

- a1- Define the properties of electric charge.
- a2- Define electric field; calculate the electric field due to a collection of point charges, and use integral techniques to calculate the electric field due to a continuous distribution of charge.
- a3- describe the properties of conductors in electrostatic equilibrium.
- a4- Define and relate electric potential, electric potential energy and electric field; .
- a5- Describe electromagnetic induction, magnetic flux, motional and induced EMFS.
- a6- define the magnetic field; magnetic dipole moment

b- Intellectual skills

- b5- Skill in solving and presenting problems solutions.
- b6- Practice the scientific process; identify a problem; make predictions and develop a testable hypothesis.
- b7- Use of appropriate verbal, graphical and mathematical descriptions of physical phenomena.
- b4- calculate electric flux; use Gauss's Law to calculate electric field.
- b5- calculate the force between point charges.
- b6- calculate electric potential for arbitrary charge distributions
- b7- calculate capacitance and energy stored in a capacitor
- b8- calculate equivalent series / parallel capacitance.
- b9- apply current, current density, emf, resistance, resistivity, electrical power.
- b10- Calculate and apply series/parallel equivalent resistance
- b11- apply Kirchoff's rules to multi loop and series RC circuits.
- b12- calculate the magnetic force on a charged particle and its resulting trajectory
- b13- calculate magnetic force on a current carrying wire
- b14- calculate and apply magnetic torque on a current loop
- b15- calculate magnetic force between current carrying wires.

c- Professional and practical skills

By the end of this course students will be able to:

- c1- Design an experimental investigation.
- c2- Analyze experimental data, recognizing the inherent uncertainty in all measurements and their effect on calculated quantities
- c3- Predict conclusions supported by the data and present results.

d- General and transferable skills

By the end of this course students will be able to:

- d1- *develop* the confidence to try different approaches in order to make progress on challenging problems.
- d2- develop the skills of independent investigation. Student will generally have experience of using textbooks, and other available literature, of searching databases and of interacting with colleagues to extract information.
- d3- develop the ability to listen carefully, to read demanding text, and to present complex information in a clear and concise manner.
- d4- Encourage collaborative teamwork.
- d5- use their initiative, to organize themselves to meet deadlines
- d6- interact constructively with other people.

3- Contents

Topic	Total Hours	Lecture (Hours)	Tutorial/practical (Hours)
3.1 Electric Fields 3.1.1 Properties of Electric Charges 3.1.2 Coulomb 's Law 3.1.3 The electric Field Electric Field of a Continuous Charge Distribution 3.1.4 Electric Field Lines 3.1.5 Motion of a Charged Particles in a Uniform Electric Field	4	3	1
3.2 Gauss's Law 3.2.1 Electric Flux 3.2.2 Gauss 's Law 3.2.3 Application of Gauss' s Law to Various Charge Distributions	4	3	1
3.3 Electric Potential 3.3.1 Potential Difference and Electric Potential 3.3.2 Potential Differences in a uniform Electric Field 3.3.3 Electric Potential and Potential Energy Due to a point Charge 3.3.4 Electric Potential Due to Continuous Charge Distributions	4	3	1
3.4 Capacitance and Dielectrics 3.4.1 Definition of Capacitance 3.4.2 Calculating Capacitance 3.4.3 Combinations of Capacitors 3.4.4 Energy Stored in a Charged Capacitors 3.4.5 Capacitors With Dielectrics	8	3	1 / 4
3.5 Current and Resistance 3.5.1 Electric Current 3.5.2 Resistance 3.5.3 Resistance and Temperature 3.5.4 Electrical Power	6	3	1 / 2
3.6 Direct Current Circuits 3.6.1 Electromotive Force 3.6.2 Resistors in Series and Parallel 3.6.3 Kirchhoff's Rules 3.6.4 RC Circuits	8	3	1 / 4
3.7 Magnetic Fields 3.7.1 Magnetic Fields and Forces 3.7.2 Magnetic Force Acting on a Current- Carrying Conductor 3.7.3 Torque on a Current Loop in a Uniform Magnetic Field 3.7.4 Motion of a charged Particle in a Uniform Magnetic Field 3.7.5 The Hall Effect	6	3	1 / 2

3.8 Sources of Magnetic Field 3.8.1 The Boit-Savart Law 3.8.2 The Magnetic Force Between Two Parallel Conductors 3.8.3 Ampere 's Law 3.8.4 The Magnetic Field of a solenoid 3.8.5 Magnetic Flux 3.8.6 Gauss 's Law in Magnetism 3.8.7 Displacement Current and the General Form of Ampere's Law 3.8.8 Magnetism in Matter	6.5	4.5	2	4- Teaching and learning methods 4.1 - Lectures 4.2- Homework (assignments). 4.3- Quizzes. 4.4- Physics Lab. 4.5- Recitation (problem solving session)
3.9 Faraday' s Law 3.9.1 Faraday 's Law of Induction 3.9.2 Motional emf 3.9.3 Lenz' s Law 3.9.4 Induced emf and Electric Current 3.9.5 Maxwell 's Equations	4	3	1	

ework (assignments).

4.3- Quizzes.

4.4- Physics Lab.

4.5- Recitation (problem solving session)

5- Student assessment methods

5.1- Quizzes and examinations to assess a student's understanding of the concepts in the course, and utilizing skill and knowledge that have acquired over the semester.

5.2- Laboratory reports to asses presentation of the reports, making and interpreting graphs, and applying rudimentary statistics.

5.3- Recitation to assess the ability to solve new problems, to develop mathematical models, to complete calculations, and to communicate physical arguments.

Assessment schedule

Assessment 1	Quizzes	Every Two Weeks
Assessment 2	1 st Mid Term Exam	Week 6
Assessment 3	2 nd Mid Term Exam	Week 10
Assessment 3	Laboratory Reports	Every Week
Assessment 4	Final Practical Exam	Week 13
Assessment 5	Final Exam	Week 14

Weighting of assessments

1 st Mid-term examination	20 points	20 %
1 st Mid-term examination	20 points	20 %
Final- examination	40 points	40 %
Practical examination	10 points	10 %
Quizzes& Assignments	5 points	5 %
Attendance	5 points	5 %
Total	100 points	100 %

6- List of reference

6.1- Course notes

- 6.1.1 Instructors notes
- 6.1.2 Tutorial solving problem notes
- 6.1.3 Laboratories Notes

6.2- Essential books (text books)

Raymond A. Serway “Physics for scientists and engineers with modern physics” 9th edition, 2013.

6.3- Recommended books

- D. Halliday, R. Resnick, and J. Walker: “Fundamentals of Physics” Extended with modern Physics, 10th edition, John Wiley & Sons Inc., New York, 2014.
- College Physics by Giambattista & Richardson, 2004

6.4- Web sites <http://www.thomsonedu.com/thomsonnow>

7- Facilities required for teaching and learning

- 7.1- Physics lab
 - 7.2- Data Show
 - 7.3- Overhead Projector
 - 7.4 - Video Tape
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstrations
4-3	Role playing and hands on
4-4	Small group discussion

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			√
	a2	√			√
	a3	√			√
	a4	√			√
	a5	√			√
	a6	√			√
b	b1		√	√	
	b2		√	√	
	b3		√	√	
	b4		√	√	
	b5		√	√	
	b6		√	√	
	b7		√	√	
	b8		√	√	
	b9		√	√	
	b10		√	√	
	b11		√	√	
	b12		√	√	
	b13		√	√	
	b14		√	√	
	b15		√	√	
c	c1			√	√
	c2			√	√
	c3			√	√
d	d1			√	√
	d2			√	√
	d3			√	√
	d4			√	√
	d5			√	√
	d6			√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical exam

Assessment Plan:

ILOs		5-1	5-2	5-3
a	a1	√	√	
	a2	√	√	
	a3	√	√	
	a4	√	√	
	a5	√	√	
	a6	√	√	
b	b1			√
	b2			√
	b3			√
	b4			√
	b5			√
	b6			√
	b7			√
	b8			√
	b9			√
	b10			√
	b11			√
	b12			√
	b13			√
	b14			√
	b15			√
c	c1			√
	c2			√
	c3			√
d	d1		√	√
	d2		√	√
	d3		√	√
	d4		√	√
	d5		√	√
	d6		√	√

Course coordinator:
Prof. Dr. Ashraf El-Sherif
Head of Department:
Date: 4 / 9 / 2017

Future University
Faculty of Oral and Dental Medicine

Course Specifications for Chemistry (SGS 121)

Program on which the course is given: Bachelor of Dental medicine and Surgery (**BDS**)

Faculty offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary sciences (**Chemistry**)

Academic Year / Level: 1st semester

A- Basic Information

Course Title	Chemistry
Code	SGS 121
Credit Hours	4
Lecture /week	3 hr
Practicals / week	2 hr
Total contact hours/ week	5 hr

Pre-requisite: No

B- Professional Information

1. Overall Aims of Course

At the end of the course, the students should have good knowledge of the following topics: Classical theory of structures; Bohr's model of hydrogen atom; Quantum theory, basic concepts; Electronic configuration of the elements; General trends within the periodic table; Chemical bonding and molecular structure; Acids and Bases; Chemical equilibrium; Qualitative inorganic analysis (identification of acidic and basic radicals in simple salts; Volumetric analysis).

2. Intended Learning Outcomes of Course(ILOs)

At the end of this course the students should be able to:

a) Knowledge and understanding:-

- a.1- Define matter and its classifications.
- a.2- Classify and differentiate different states of matter and their properties.

b)- intellectual skills.

- b.1- Distinguish chemical bonding.
- b.2- differentiate acids and bases and their properties.
- b.3- predict the rate of a reaction.
- b.4- Define chemical equilibrium.

c) Professional and practical skills.

- c.1- Work through chemical mathematical problems.
- c.2- draw concept of "Experimental Design" through the laboratory work.

d) General and transferable skills.

d1- act responsibly in personal and professional relationships.

d2- take responsibility for their own learning and continuing personal and professional development.

d3- act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Laboratory Calendar

Week	Event	Lab
1 st week	Off	2 hours
2 nd week	Orientation	2 hours
3 rd week	Rate of reaction	2 hours
4 th week	Carbonates/Bicarbonates	2 hours
5 th week	Halides	2 hours
6 th week	Off	2 hours
7 th week	Sulphur Compounds	2 hours
8 th week	Nitrogen compounds	2 hours
9 th week	Revision	2 hours
10 th week	Quiz	2 hours
11 th week	Off	2 hours
12 th week	Acid Base Titration	4 hours
13 th week		
14 th week	Quiz	2 hours

Theoretical Calendar

Week	Event	Lecture
1 st week	Orientation	3 hours
2 nd week	Matter	3 hours
3 rd week	Structure of the atom	6 hours
4 th week		
5 th week	Revision	3 hours
6 th week	First midterm	3 hours
7 th week	Chemical Bonding	3 hours
8 th week	Chemical calculations	6 hours
9 th week		
10 th week	Revision	3 hours
11 th week	Second midterm	3 hours
12 th week	States of mater	6 hours
13 th week		
14 th week	Revision	3 hours

Course schedule:

Week	Lecture	Hours	Lab	Hours
1st week	Orientation	2 hours		
2nd week	Matter	2 hours	Orientation	2 hours
3rd week	Structure of the atom	4 hours	Rate of reaction	2 hours
4th week			Carbonates/Bicarbonates	2 hours
5th week	Revision	2 hours	Halides	2 hours
6th week	First midterm	2 hours	Off	2 hours
7th week	Chemical Bonding	2 hours	Sulphur Compounds	2 hours
8th week	Chemical calculations	4 hours	Nitrogen compounds	2 hours
9th week			Revision	2 hours
10th week	Revision	2 hours	Quiz	2 hours
11th week	Second midterm	2 hours	Off	2 hours
12th week	States of mater	4 hours	Acid Base Titration	4 hours
13th week				
14th week	Revision	2 hours	Quiz	2 hours

4. Teaching and Learning Methods

Methods used.

1. Lectures
2. Demonstrations
3. Small group discussion

5. Student Assessment Methods

5-1. Written examination short questions, multiple choice assignments, quizzes to Assess knowledge and understanding.

5-2. Several oral examination to assess verbal scientific thinking skills

5-3. Practical exam to assess intellectual skills & General and transferable skills

Assessment Schedule Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st midterm	20	%
2 nd midterm	20	%
Class work	20	%
Final Written Examination	30	%
<u>Practical examination</u>	<u>10</u>	<u>%</u>
Total	100	%

6. List of References

6.1 *Required Textbook:*

Katherine J. Denniston and Joseph J. Topping; Foundations of General, Organic and Biochemistry; seventh Edition; Mc Grow Hill; 2013.

6.2 *Lab manual*

6.3 *Any lecture or lab notes to be distributed*

Teaching and learning methods:

Code	Teaching and learning Method
5-1	Lectures
5-2	Demonstrations
5-3	Role playing and hands on
5-4	Small group discussion

Teaching Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√			√
	a2	√			√
b	b1	√			√
	b2	√	√		√
	b3		√		√
	b4	√			√
c	c1			√	√
	c2		√	√	√
	c3				
d	d1				
	d2				
	d3				

Assessment methods:

Code	Assessment Method
5-1	Written examination short questions, multiple choice assignments, quizzes to Assess knowledge and understanding.
5-2	Oral examination to assess clinical skills
5-3	Practical exam to assess intellectual skills & General and transferable skills

Assessment Plan:

ILOs		5-1	5-2	5-3
a	a1	√		
	a2	√		
	a3			
b	b1		√	
	b2		√	
	b3		√	
	b4		√	
c	c1			√
	c2			√
	c3			
d	d1			
	d2			
	d3			

Course Coordinator: Dr. Nahla ElKadi

Head of Department: Dr, Nahla ElKadi

Date: / /

Future University

Faculty of Oral and Dental Medicine

Course Specifications for Chemistry (SGS 122)

Program on which the course is given: Bachelor of Dental medicine and Surgery (**BDS**)

Faculty offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary sciences (**Chemistry**)

Academic Year / Level: 2nd semester

A- Basic Information

Course Title	Chemistry
Code	SGS 122
Credit Hours	4
Lecture /week	3 hr
Practicals / week	2 hr
Total contact hours/ week	5 hr

Pre-requisite: SGS 121

B- Professional Information

1. Overall Aims of Course

At the end of the course the students should have good knowledge of the following topics: Hydrocarbons; Alkyl halides; Alcohols; Ethers; Aldehydes and ketone; Carboxylic acids; Simple aromatic compounds; Isomerism; introduction to lipids, amino acids, and carbohydrates.

2. Intended Learning Outcomes of Course(ILOs)

At the end of this course the students should be able to do:

- b) Knowledge and understanding:-
 - a.1- Define different types of isomers.
 - a.2- Define lipids, amino acids, and carbohydrates.

b)- intellectual skills.

- b.1- predict theoretical and experimental identification of simple aliphatic and aromatic hydrocarbons.
- b.2- Distinguish Theoretical and experimental identification of simple alcohols
- b.3- Predict theoretical and experimental identification of simple aldehydes and ketones.
- b.4- predict Theoretical and experimental identification of simple carboxylic acids.

c) Professional and practical skills.

c.1- Progressing further to concepts of “Experimental Design” through the laboratory work.

d) General and transferable skills.

d1- act responsibly in personal and professional relationships.

d2- take responsibility for their own learning and continuing personal and professional development.

d3- act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Laboratory Calendar

Week	Event	Lab
1	Off	2 Hours
2	Orientation	2 Hours
3	Alcohols	2 Hours
4	Aldehydes & Ketones	2 Hours
5	Revision	2 Hours
6	Off	2 Hours
7	Quiz	2 Hours
8	Carboxylic Acids	2 Hours
9	Phenols	2 Hours
10	Revision	2 Hours
11	Off	2 Hours
12	Quiz	2 Hours
13	amines	2 Hours
14	Hydrocarbons	2 Hours

Theoretical Calendar

Week	Event	Lecture
1	Orientation	3 Hours
2	Naming	3 Hours
3	Alkanes	3 Hours
4	Alkenes	3 Hours
5	Revision	3 Hours
6	First midterm	3 Hours
7	Alkynes	3 Hours
8	Alcohols	3 Hours
9	Aldehydes & Ketones	3 Hours

10	Revision	3 Hours
11	Second midterm	3 Hours
12	Oxygen compounds	6 Hours
13		
14	Revision	3 Hours

Course schedule:

Week	Lecture	Hours	Lab	Hours
1	Orientation	2 Hours		
2	Naming	2 Hours	Orientation	2 Hours
3	Alkanes	2 Hours	Alcohols	2 Hours
4	Alkenes	2 Hours	Aldehydes & Ketones	2 Hours
5	Revision	2 Hours	Revision	2 Hours
6	First midterm	2 Hours		
7	Alkynes	2 Hours	Quiz	2 Hours
8	Alcohols	2 Hours	Carboxylic Acids	2 Hours
9	Aldehydes & Ketones	2 Hours	Phenols	2 Hours
10	Revision	2 Hours	Revision	2 Hours
11	Second midterm	2 Hours		
12	Oxygen compounds	4 Hours	Quiz	2 Hours
13			amines	2 Hours
14	Revision	2 Hours	Hydrocarbons	2 Hours

4. Teaching and Learning Methods Methods used.

1. Lectures
2. Demonstrations
3. Small group discussion

5. Student Assessment Methods

- 5-1. Written examination short questions, multiple choice assignments, quizzes to Assess knowledge and understanding.
- 5-2. Several oral examination to assess verbal scientific thinking skills
- 5-3. Practical exam to assess intellectual skills & General and transferable skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
Assessment 2: 2nd Mid Term Exam
Assessment 3: Mid Term practical exam
Assessment 4: Final written & Practical exam

Weighting of Assessments

1 st midterm	20	%
2 nd midterm	20	%
Class work	20	%
Practical Examination	10	%
Final Written Examination	30	%

Total 100 %

6. List of References

6.1 Required Textbook:

Katherine J. Denniston and Joseph J. Topping; Foundations of General, Organic and Biochemistry; seventh Edition; Mc Grow Hill; 2013.

6.2 Lab manual

6.3 Any lecture or lab notes to be distributed

Teaching and learning methods:

Code	Teaching and learning Method
5-1	Lectures
5-2	Demonstrations
5-3	Role playing and hands on
5-4	Small group discussion

Teaching Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√		√	
	a2	√		√	
b	b1	√	√	√	
	b2	√	√	√	
	b3	√	√	√	
	b4	√	√	√	
c	c1		√		

Assessment methods:

Code	Assessment Method
5-1	Written examination short questions, multiple choice assignments, quizzes to Assess knowledge and understanding.
5-2	Oral examination to assess clinical skills
5-3	Practical exam to assess intellectual skills & General and transferable skills

Assessment Plan:

	ILOs	5-1	5-2	5-3
a	a1	√		
	a2	√		
	a3			
b	b1		√	
	b2		√	
	b3		√	
	b4		√	
c	c1			√
	c2			
	c3			
d	d1			
	d2			
	d3			

Course Coordinator: Dr. Nahla ElKadi
Head of Department: Dr, Nahla ElKadi

Future University

Faculty of Oral and Dental Medicine

Course Specifications for Botany SGS131

Program on which the course is given: Bachelor of Dental medicine and Surgery (**BDS**)

Faculty offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary sciences (**Botany**)

Academic Year / Level: 2nd semester

A- Basic Information

Course Title	
Code	SGS131
Credit Hours	3
Lecture /week	2 hrs
Practicals / week	2 hrs
Total contact hrs/ week	4 hrs

Pre-requisite: - No

B- Professional Information

1. Overall Aims of Course

- To raise awareness of the students to plant cell physiology
- To distinguish between different plant cell components microscopically
- To conduct experiments and be able to write a report
- To understand the use of plants in medicine

2. Intended Learning Outcomes of Course(ILOs)

3. By the end of the course each student will be able:-

a) Knowledge and understanding :

a1- Recognize the basic knowledge needed for botany science.

a2- Identify the plant cell structure.

a3- Differentiate between living and nonliving components of the cell

a4- Describe the metabolic activities and the plant cell physiology

b) Intellectual Skills:

By the end of the course each student will be able:-

b1- View the cellular world

b2- Distinguish between different plant cell components microscopically.

b3- Know how to use the plants in medicine

c) Professional and Practical Skills:

By the end of the course each student will be able:-

c.1- Identify cell structure of the plant.

c.2- Use the microscope

c.3- Draw specimens up to the microscopic scale

c.4- Conduct experiments to write a report

c.5-Apply the study of plant physiology and cell structure in the production of medicine.

d) General and transferable skills

By the end of the course each student will be able:-

d.1- Use the library and internet resources to develop independent study skills through assignments.

3. Course Contents:

Ser.	TOPIC
1	Plant cell structure
2	Living and non living components

3	Physiology
4	Colloids
5	Water transport
6	Solute and solvent transport
7	Enzymes

Topics Schedule:

Attached in a separate file

4. Teaching and Learning Methods

4-1. Lectures

4-2. Small group discussion

4-3. Demonstrations

4-4. Practical training

5. Student Assessment Methods

5-1. Written examination.

5-2. Multiple choice assignments.

5-3. Quizzes

5-4. Practical exam to assess intellectual skills & General and transferable skills

Assessment Schedule

Assessment 1: 1st Mid Term Exam(6th week)

Assessment 2: 2nd Mid Term Exam(10th week)

Assessment 3: Ass. Weekly quizzes in the labs.

Assessment 4: Final written

Weighting of Assessments

1 st Mid Term Examination	15 %
2 nd Mid Term Examination	15 %
Practical Examination	15 %
Final Written Examination	30 %
<u>Other types of assessment</u>	<u>25%</u>
Total	100 %

6. List of References

6-1. Course Notes

6.2- Essential Books (Text Books)

.....Biology (Brooker *et al.*, 2014).....

6.3- Recommended Books

Biology of Plants (Peter Raven 2008)

Botany: An Introduction to Plant Biology (James Mauseth, 2016)

7. Facilities Required for Teaching and Learning

Laboratories equipped with microscopes

Smart classroom

Website to upload lectures, labs and videos

e-book

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	X							
	a2	X	X				X		
	a3	X	X				X		
	a4	X	X				X		
b	b1	X	X	X			X		
	b2	X	X	X			X		
	b3	X	X				X		
c	c1	X		X	X		X		
	c2			X	X				
	c3			X	X				
	c4			X	X				
	c5			X	X				
d	d1		X	X	X				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	X				X			
	a2	X		X		X			
	a3	X		X		X			
	a4	X		X		X			
b	b1	X		X		X			
	b2	X		X		X			
	b3	X		X		X	X	X	X
c	c1	X		X					
	c2			X					
	c3			X					
	c4			X			X		
	c5			X					
d	d1						X	X	X

Course Coordinator: Dr. Maha ALKhazindar

Head of Department:

Date: 7 /10 /2017

Future University

Faculty of Oral and Dental Medicine

Course Specifications for Botany SGS132

Program on which the course is given: Bachelor of Dental medicine and Surgery (**BDS**)

Faculty offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary sciences (**Botany**)

Academic Year / Level: 2nd semester

A- Basic Information

Course Title	
Code	SGS132
Credit Hours	3
Lecture /week	2 hrs
Practicals / week	2 hrs
Total contact hrs/ week	4 hrs

Pre-requisite: SGS 131

B- Professional Information

1. Overall Aims of Course:

- To appreciate the nature of interactions between genes and the influence of gene interaction on inheritance patterns.

- To prepare and distinguish Gram +ve and Gram –ve bacteria.
- To develop lab skills in DNA isolation from plant
- To understand the different pathogens causing infection and hence know what an infection control strategy in clinics and hospitals is.

2. Intended Learning Outcomes of Course(ILOs)

Knowledge and understanding :

By the end of this course each students will be able to:

- a1- Explore the system of classification of plants bacteria and fungi..
- a2- Know the general characteristics of microorganisms.
- a3- Describe the general characteristics of viruses and the different methods of infection and multiplication.
- a4- Introduce students to the fundamentals of molecular genetics.
- a5-Explore the DNA structure and replication.
- a6-Know the different concepts of plant genetics.
- a7- Discuss the molecular aspects of chromosome and gene structure, how genes are replicated, expressed and regulated.
- a8- Know the nature of interactions between genes and the influence of gene interaction on inheritance patterns.
- a9- Prepare students for heredity diseases in advanced levels.

b) Intellectual Skills:

By the end of this course each students will be able to:

- b1- Distinguish between organic and genetically modified organisms through case studies and debates
- b2- Prepare and distinguish Gram +ve and Gram –ve bacteria.
- b3- Distinguish between different fungi, bacteria and viruses

c) Professional and Practical Skills:

By the end of this course each students will be able to:

- c1- Distinguish the microbial pathogens
- c2- Begin to develop lab skills in DNA isolation from plant
- c3- Identify different fungi microscopically
- c4- Compare between different bacteria
- c5- Virus detection by haemagglutination tests
- c6- Conduct experiments and write a report

d) General and transferable skills

By the end of this course each students will be able to:

d1- Apply the genetics study in other medicinal disciplines and be stimulated for studies related to the course beyond this introductory level.

d2- Apply the study of systematics (bacteria, fungi and viruses) to identify the pathogenic forms.

d3- Identify the different pathogens causing infection and hence know what is infection control strategies in clinics and hospitals.

d4- Use the library and internet resources to develop independent study skills through assignments.

3. Course Contents:

Ser.	TOPIC
1	Classification of living organisms
2	Bacteria
3	Fungi
4	Virus
5	Introduction to Genetics (mitosis and meiosis)
6	The genetic code, protein synthesis and Gene regulation
7	Mutation , Mendelian inheritance
8	Genes and diseases
9	Identification of inherited disease
10	Molecular genetics testing

Topics schedule:-

Attached in a separate file

4. Teaching and Learning Methods

4-1. Lectures

4-2. Small group discussion

4-3. Demonstrations

4-4. Practical training

5. Student Assessment Methods

5-1. Written examination.

5-3. Practical exam.

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: weekly quizzes in labs

Assessment 4: Final written

Weighting of Assessments

1st Mid Term Examination 15 %

2nd Mid Term Examination 15 %

Practical Examination 15 %

Final Written Examination 30 %

Other types of assessment 25%

Total 100 %

6. List of References

6-1. Course Notes

6.2- Essential Books (Text Books)

..... Biology (Brooker *et al.*, 2014).....

6.3- Recommended Books

... Biology of Plants (Peter Raven 2008)

Botany: An Introduction to Plant Biology (James Mauseth, 2016) ...

7. Facilities Required for Teaching and Learning

Laboratories equipped with microscopes

Smart classroom

Website to upload lectures, labs and videos

e-book

Course Coordinator:

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	X							
	a2	X							
	a3	X							
	a4	X							
	a5	X							
	a6	X							
	a7	X							
	a8	X							
	a9	X							
b	b1	X					X		
	b2	X					X		
	b3	X					X		
c	c1	X		X	X				
	c2			X	X				
	c3	X		X	X				
	c4	X		X	X				
	c5	X		X	X				
	c6		X	X	X		X		
d	d1			X	X				
	d2			X	X				

	d3			X	X		X		
	d4		X	X	X		X		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	X					X		
	a2	X				X			
	a3	X				X			
	a4	X				X			
	a5	X				X	X		
	a6	X				X			
	a7	X				X	X		X
	a8	X				X			
	a9	X				X		x	x
b	b1	X				X			
	b2	X				X			
	b3	X				X	x		X
c	c1	X		X					
	c2			X					
	c3	X		X					
	c4	X		X					
	c5	X		X					

	c6			X					
d	d1			X					
	d2			X					
	d3			X					
	d4			X					

Course Coordinator: Dr. Maha ALKhazindar

Head of Department:

Date: 10 / 10 /2017

Future University

Faculty of Oral and Dental Medicine

Course Specifications

Zoology I

SGS 141

Program on which the course is given Bachelor of Dental medicine and Surgery (BDS) Faculty offering the program: Faculty of Oral and Dental Medicine.

Department offering the course: Supplementary General Sciences

Academic Year / Level: 1st semester

A- Basic Information

Course Title	Zoology I
Code	SGS 141
Credit Hours	3
Lecture /week	2 hrs
Practicals / week	2hrs
Total contact hrs/ week	4 hrs

Pre-Requisite: No

B- Professional Information

1. Overall Aims of Course

- To relate different body organs to each other anatomically and use of the proper terms to describe their position.
- To identify the main functions of cell organelles
- To be able to perform microscopic examination and identification of histology and cell biology
- To provide the student with basic information and vocabulary in perpetration for advanced courses in human biology.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding: by the end of the course the students will be able to:-

- a1- Relate the function of cell organelles to the ultra-structure.
- a2- Define different types of body tissues and their relation to body organs.

a3- Describe the main steps during early embryonic development in an experimental chordate model.

a4- Relate different body organs to each other anatomically and the use of the proper terms to describe their position.

a5- Memorize the basic scientific terminology regarding anatomical and physiological function of the related organ.

b) Intellectual Skills: by the end of the course the students will be able to:-

b.1- Recognize different body organs and systems.

b.2- Illustrate diagrams of different body systems.

b.3- Define different types of tissues.

b.4- Name the sites of each tissue in the body organs.

b.5- Explain the relation between the anatomical site of the tissue and its function.

b.6- Define different cell organelles and their function.

c) Professional and Practical Skills: by the end of the course the students will be able to:-

c.1-Examine the parts of the bones and to recognize types of articulations.

c.2-Examine and recognize section in body organs microscopically.

c.3-Illustrate diagrams for different sections in body organs.

c.4- Use the dissecting instruments and light microscope.

c.5-Perform examination of the different body tissues by using microscope.

d) General and transferable skills: by the end of the course the students will be able to:-

1- Recognize the value and role of lifelong learning, self-assessment and critical thinking in maintaining competency.

2- Evaluate personal progress and assess ones weakness and strengths

3. Course Contents:

TOPIC
1) Introduction
2) The animal cell and the cell membrane
3) Membranous components.
4) Membranous and non-membranous components.
5) The cytoplasmic matrix
6) The Nucleus
7) Introduction to immunology
8) Introduction to embryology

Course schedule:

Weeks	Topics			
	content	Lecture period (hours)	content	Lab period (hours)
1 st week	Introduction The characteristics of life, Humans are related to other animals, Science as a process, Making sense of a scientific study, Science & social responsibility.	2	Buccopharyngeal cavity. External features of toad.	2
2 nd week	The animal cell general features and the cell membrane	2	External muscles of toad. General viscera ultrastructure.	2

	structure, synthesis and transport			
3rd week	Membranous components Golgi app., mitochondria, endoplasmic reticulum, lysosomes (LM & EM) and function	2	Urino genital system ultrastructure.	2
4th week	Membranous and non-membranous components. cytoskeleton, ribosome (LM&EM) and function	2	First dissection lab ultrastructure.	2
5th week	The cytoplasmic matrix component, function	2	Arterial system of toad. Venous system ultrastructure.	2
6th week	Midterm exam			
7th week	The Nucleus Structure, function and cell cycle	2	Second dissection lab.	2
8th week	Introduction to immunology difference between acquired and innate	2	Third dissection lab.	2
9th week	Immunology Macrophage, T-lymphocyte, B-lymphocyte, structure and functions	2	Nervous system. Skeleton system.	2
2nd Midterm				
10th week	Embryology Gametogenesis, Fertilization,, Cleavage, Gastrulation, Organogenesis	2	Anatomy exam.	2
11th week	Epithelial tissue 1 characteristics and structure	2	Connective tissue. T.S in artery & vein.	2

12th week	Epithelial tissue 2 function& site	2	Muscular tissue. T.S in spinal coral. T.S in sciatic nerve.	2
13th week	Connective tissue Characteristics, structure, site and function	2	Slide show in T.S in skin of toad. T.S in skin of pig.	2
14th week	Revision			

4. Teaching and Learning Methods

- ❖ Lectures
- ❖ Practical sessions.
- ❖ Small group discussion

5. Student Assessment Methods

- ❖ Written examination short questions, multiple and essay question.
- ❖ Practical examination
- ❖ Quizzes
- ❖ Assignments

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	20%
2 nd Mid Term Examination	20%
Practical Examination	10%
Final Written Examination	30%

Other types of assessment 20%

Total 100 %

6. List of References

6-1. Course Notes

6-2. Department Books available for all students. All biological books.

6-3. Essential Books (Text Books) Brooker's Biology Book 2nd edition, 2011.

6-4. Recommended Books Human biology book 11th edition (Sylvia mader), 2013.

6-5. Periodicals, Web Sites, etc.

3. Facilities Required for Teaching and Learning

7.1- Data show.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (please specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√	√		√ √
	a2	√	√		√ √
	a3	√	√		
	a4	√	√		√
	a5	√	√		
b	b1	√	√		√ √
	b2	√	√		√ √
	b3	√	√		√ √
	b4	√	√		√ √
	b5	√	√		√ √
	b6	√	√		√
c	c1	√	√		√ √
	c2	√	√		√
	c3	√	√		√ √
	c4		√	√	√
	c5		√	√	√
d	d1		√		
	d2		√		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√		√		√	√	√	
	a2	√		√		√	√	√	
	a3	√				√	√		
	a4	√		√		√	√	√	
	a5	√		√		√	√	√	
b	b1	√		√		√	√	√	
	b2	√		√		√	√	√	
	b3	√		√		√	√	√	
	b4	√		√		√	√	√	
	b5	√		√		√	√	√	
	b6	√		√		√	√		
c	c1	√	√	√		√	√		
	c2	√	√	√		√	√		
	c3	√	√	√		√	√		
	c4	√	√	√		√	√		
	c5	√	√	√		√	√		
d	d1								
	d2		√						

Course Coordinator: Assistant Prof Dr. Alyaa Ragaie
Head of Department: Assistant Prof Dr. Alyaa Ragaie
Date: 27 /09 /2017

Future University

Faculty of Oral and Dental Medicine

Course Specifications

Zoology II

SGS 142

Program on which the course is given Bachelor of Dental medicine and Surgery (**BDS**) Faculty offering the program: Faculty of Oral and Dental Medicine.

Department offering the course: Supplementary General Sciences

Academic Year / Level: 2nd semester

A- Basic Information

Course Title	Zoology II
Code	SGS 142
Credit Hours	3
Lecture /week	2 hrs
Practicals / week	2 hrs
Total contact hrs/ week	4 hrs

Pre-Requisite: Zoology (SGS 141)

B- Professional Information

1. Overall Aims of Course

- To provide the students clear understanding of the most important concepts and principles of taxonomy, morphology and physiology.
- To prepare the student to study more advanced courses in human anatomy, medical physiology and endocrinology.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding: by the end of the course the students will be able to:-

a.1- Recognize the relation between the anatomy and the histology of the organs physiological function.

a.2- Name different animal phyla (**taxonomy**)

a.3- Describe the similarities and differences in structure of different body systems in different chordate (vertebrate) classes.

a.4- Identify the relation between man and other vertebrate classes regarding ontogeny and phylogeny.

b) Intellectual Skills: by the end of the course the students will be able to:-

b.1- Explain the main characteristic features of invertebrates classes and their taxonomy.

b.2- Relate different body organs to each other anatomical and use the proper terms to describe their position.

b.3- Compare between the way of action of the nervous and different body organs.

b.4- Estimate the possible abnormalities result from lesions in certain organ or system using the knowledge of structure and function of the organs.

b.5- Discuss endocrine system and the role of hormones.

c) Professional and Practical Skills: by the end of the course the students will be able to:-

c.1- Discuss the taxonomy of the animal kingdom.

c.2- Describe all body organs, skeletal muscles and bones of rabbit.

c.3- Classify the different type of parasites related to human infection.

d) General and transferable skills: by the end of the course the students will be able to:-

1- Join the students with their society and improve their self-assessment and thinking.

2- Enhance the personal characterization and progress weakness and strengths.

3. Course Contents:

TOPIC
9) Supporting connective tissue
10) The nerve cell
11) Physiology of nerve & action potential
12) Autonomic of nervous system
13) Histology and physiology of muscle contraction
14) Circulatory system
15) Blood
16) Respiratory system
17) Endo crine system

18) Calcium homeostasis

19) Cranial nerves

Course schedule:

Week	Topics			
	content	Lecture period (hours)	content	Lab period (hours)
1 st week	The nerve cell structure & function	2	Supporting connective tissue (Bone)	2
2 nd week	Physiology of nerve & action potential sequence of resting and action Potential physiology	2	Vascular connective tissue (blood)	2
3 rd week	Autonomic nervous system sympathetic, parasympathetic	2	Introduction to systematic	2
4 th week	Physiology of muscle & muscle contraction structure & function	2	General character of protozoa Life cycle of entamoeba Life cycle of trypanosome	2
5 th week	1 st mid-term+ Neuromuscular junction			
6 th week	Circulatory system structure & function	2	Life cycle of plasmodium Hydra & stony coral	2
7 th week	Blood structure, function, disorder	2	Fasciola (whole & T.S) Taenia (whole & T.S)	2
8 th week	Respiratory system structure & function	2	Schistsoma & ascaris	2
9 th week	2 nd mid-term+Gas exchange			
10 th week	endocrine system glands, hormones, function, disorder	2	Allolobophra revision	2
11 th week	calcium homeostasis controls, disorders	2	Quiz	2
12 th week	cranial nerves nomenclature, innervation	2	Skeleton of rabbit (skull & vertebral column)	2
13 th week	revision	2	Skeleton of rabbit (Girdles & Limbs)	2

4. Teaching and Learning Methods

- ❖ Lectures
- ❖ Demonstrations
- ❖ Small group discussion
- ❖ Data show

5. Student Assessment Methods

- ❖ Written examination short questions, multiple choice and essay question.
- ❖ Oral examination.
- ❖ Practical examination.
- ❖ Quizzes.
- ❖ Assignments.

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	20%
2 nd Mid Term Examination	20%
Practical Examination	10%
Final Written Examination	30%
<u>Other types of assessment</u>	<u>20%</u>
Total	100 %

Any formative only assessments

6. List of References

6-1. Course Notes.

6-2. Department Books available for all students. all biological books.

- 6-3. Essential Books (Text Books) Brooker's Biology Book second edition, 2011.
- 6-4. Recommended Books Human biology book 11th edition (Sylvia mader), 2013.
- 6-5. Recommended Books Campbell Reece book.
- 6-6. Periodicals, Web Sites, etc.

7. Facilities Required for Teaching and Learning

7.1- Data show.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√		√				
	a2		√		√				
	a3	√	√		√				
	a4	√	√		√				
b	b1		√		√				
	b2	√	√		√				
	b3	√	√		√				
	b4	√	√		√				
	b5	√	√						
c	c1	√	√	√	√				
	c2		√	√	√				
	c3		√	√	√				

d	d1	√	√		√				
	d2	√	√		√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√		√		√	√	√	
	a2	√		√		√	√	√	
	a3	√		√					
	a4	√		√		√	√	√	
b	b1	√		√		√	√	√	
	b2	√		√		√	√	√	
	b3	√		√		√	√	√	
	b4	√		√		√	√		
	b5	√		√		√	√		
c	c1	√		√		√	√	√	
	c2	√		√		√	√	√	
	c3	√		√		√	√	√	
d	d1		√						
	d2		√						

Course Coordinator: Assistant Prof Dr. Alyaa Ragaie

Head of Department: Assistant Prof Dr. Alyaa Ragaei

Date: 27 / 09/2017

Course Specifications for Human Dentition

Program (s) on which the course is given (B.D.S.)

Department offering the course: Oral Biology and Oral Pathology Department

Academic Year / Level: 1st semester

A- Basic Information

Course Title	Human Dentition
Code	HPT111
Credit Hours	3
Lecture /week	1
Practical / week	4
Total working hours/week	5

Pre-requisite: None

B- Professional Information

1. Overall Aims of Course

- To promote advanced knowledge about dental anatomy.
- To provide expanded knowledge about human dentition (permanent anterior teeth and premolars).

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course, the student will be able to:

- a1- Define the different parts of the oral cavity.
- a2- Describe macro and micro anatomy of the teeth.
- a3- Name the appropriate tooth identification system needed in any dental practice.
- a4- Identify the anatomical landmarks of the crowns of teeth.
- a5- Draw and describe the morphological features of different type of teeth and their pulp cavities.

a6-Memorize the chronology

b) Intellectual Skills:

By the end of the course, the student will be able to:

b1- Identify permanent human teeth.

b2- Differentiate between the different anatomical landmarks of the teeth.

c) Professional and Practical Skills:

By the end of the course, the student will be able to:

c1- Draw the morphology of different types of human teeth

c2- Create the normal shape and size of different permanent human teeth by carving.

d) General and transferable Skills:

d1- Learn the basis of scientific research

d2- Develop skills in report writing.

3. Course Contents:

- 1.Introduction about the oral cavity and teeth
2. The dentition of human being
3. Tooth anatomy
4. Line and point angles
5. Tooth identification systems
6. Anatomical landmarks of the crowns.
7. Surface anatomy of permanent anterior teeth.
8. Surface anatomy of premolars
- 9.Geometric outlines of the crowns and their significance

Course Contents:

Weeks	Content	Lecture	Content	2 Labs
1st week	Introduction -Structures of the oral cavity -Functions of Teeth -Tooth types -Dentition periods -Tooth designation	1 h	Tooth anatomy & identificationsystems -General dental terms -Tooth anatomy(Macro-anatomy&Microanatomy) -Tooth orientation terms -Anatomical and clinical crown	4 h
2nd week	Line & Point angles Division into thirds	1 h	Elevations + models	4 h
3rd week	Depressions	1 h	Carving Trapezoid & Triangle + models	4 h
4th week	Upper central incisor (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>1</u>	4 h
5th week	Upper lateral incisor (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>1</u>	4 h
6th week	Lower incisors (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>2</u>	4 h
7th week	Upper canine (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>2</u>	4 h
8th week	Lower canine (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>3</u>	4 h
9th week	Upper 1st premolar (chronology,	1 h	Carving& Drawing <u>3</u>	4 h

	surface anatomy and pulp cavity)			
10th week	Upper 2nd premolar (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>4</u>	4 h
11th week	Lower 1st premolar (chronology, surface anatomy and pulp cavity)	1 h	Carving& Drawing <u>4</u>	4 h
12th week	Lower 2nd premolar (chronology, surface anatomy and pulp cavity)	1 h	Identification of natural teeth (anterior teeth & premolars)	4 h

4. Teaching and Learning Methods

4-1. Lectures using power point.

4-2. Lectures using videos.

4-3. Lectures with discussions

4-4. Practical and small group sessions:

a. Each practical session's preceded by slide tutorial demonstration, carving videos, drawing of different teeth and class discussions.

b. Demonstration of tooth carving in small groups.

4-5. Small discussion teaching

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge, understanding as well as general and transferable skills.

5-3. Multiple choice to assess knowledge and understanding

5-4. Practical examination to assess practical skills

5-5. Assignments to assess practical & general skills

5-6. Practical and carving book to assess practical skills

Weighting of Assessments

Mid-term Examination	30 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>
Total	100%

6. List of References

6-1. Course Notes

- All lectures are available for students as presentations on the moodle.
- . Handouts for certain topics.

6-2. Essential Books

Textbooks: Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology

Histology and anatomy 2th Edition, 2006

7. Facilities Required for Teaching and Learning

Lecture Hall:

- On the 1st, 2nd and 3rd floors, Faculty of Oral & Dental Medicine , Future University. White writing boards and data show is available with prior arrangement.

Small Group Classes:

- Three practical laboratories in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University.
- White writing boards and data show is available with prior arrangement.
- New models for different types of teeth , skulls & mandibles(at different ages)
- Data show with camera
- Videos containing topics & presentations in dental anatomy & physiology

Library:

- On the second floor of Faculty of Oral & Dental Medicine, Future university.

Practical facilities:

- Models of different types of teeth, skulls and mandibles (at different ages).
 - Diagram illustrating the morphological features and anatomical landmarks of different types of teeth.
 - Wax blocks for carving
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√		√		
	a2	√	√	√	√		√		
	a3	√	√				√		
	a4	√	√	√	√		√		
	a5	√	√	√	√		√		
b	b1	√	√	√	√		√		
	b2	√	√	√	√		√		
c	c1	√	√	√	√		√		
	c2	√	√	√	√		√		
d	d1		√				√		
	d2		√				√		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√		
	a2	√	√	√		√	√		
	a3	√	√			√	√		
	a4	√	√	√		√	√		
	a5	√	√	√		√	√		
b	b1	√	√	√		√	√		
	b2	√	√	√		√	√		
c	c1	√	√	√		√	√		
	c2			√		√	√		

Course Coordinator: Prof Dr. Rehab Ali Abdel Moneim

Head of Department: Prof Dr. Rehab Ali Abdel Moneim

Date: 20 / 11 /2017

Future University
Faculty of Oral and Dental Medicine
Department of Oral Biology

Course Specifications for Human Dentition

Program (s) on which the course is given (B.D.S.)

Department offering the course: Oral Biology and Oral Pathology department

Academic Year / Level: 2nd semester

A- Basic Information

Course Title	Human Dentition
Code	HPT112
Credit Hours	3
Lecture /week	1
Practical / week	4
Total working hours/week	5

Pre-requisite: HPT111

B- Professional Information

1. Overall Aims of Course

- To promote advanced knowledge about dental anatomy and physiology.
- To provide expanded knowledge about human dentition (permanent molars and deciduous dentition).
- To serve as a basis for understanding the clinical courses such as Pedodontics, Orthodontics, Operative dentistry, Endodontics as well as prosthodontics and crown and bridge.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course the student will be able to:

a1- Identify both deciduous and permanent teeth

a2- Memorize the chronology

a3- Describe the anatomical changes induced in the mandible by age.

a4- State the significance of physiologic tooth form in protecting the periodontium .

a5- Describe the different curves to which the arrangement of teeth conform

a6- Describe the relation of maxillary and mandibular teeth in normal centric occlusion as well as during different mandibular movements

b) Intellectual Skills:

By the end of the course the student will be able to:

- b1- Differentiate between the deciduous and permanent human teeth.
- b2- Predict the approximate age of a human being according to the condition of his teeth.
- b3- Distinguish any abnormalities in human teeth as well as in their occluding relations.

c) Professional and Practical Skills:

By the end of the course the student will be able to:

- c1- Draw the morphology of different types of human teeth
- c2- Create the normal shape and size of different permanent ((premolars and molars)) human teeth by carving.

d) General and transferable Skills

- d1- Manage time effectively.
- d2- Appreciate long life learning.

3. Course Contents:

1. Surface anatomy of deciduous teeth
2. Surface anatomy of permanent molars
3. Condition of teeth at different ages
4. Mandible at different ages
5. Physiology significance of tooth form in
6. Protecting the peridontium
7. Arrangement of teeth in curves
8. Normal occlusion

Course Contents:

Weeks	Content	Lecture	Content	2 Labs
1 st week	Upper first molar(chronology, surface anatomy and pulp	1h	Carving & Drawing	4h

	cavity)		Lower 4	
2 nd week	Upper second and third molars (chronology, surface anatomy and pulp cavity)	1h	Carving &Drawing Lower 4	4h
3 rd week	Lower first molar (chronology, surface anatomy and pulp cavity)	1h	Carving &Drawing Lower 5	4h
4 th week	Lower second and third molars (chronology, surface anatomy and pulp cavity)	1h	Carving &Drawing Lower 5	4h
5 th week	Deciduous teeth (anterior) (chronology, surface anatomy and pulp cavity)	1h	Carving &Drawing upper 6	4h
6 th week	Deciduous teeth (posterior) (chronology, surface anatomy and pulp cavity)	1h	Carving &Drawing upper 6	4h
7 th week	Physiological significance of tooth form The direct factors are: 1-Proximal contact areas. 2-Interproximal spaces. 3-Embrasures or spillways. 4-Facial and lingual contours of the crown. 5-Curvature of the cervical line. 2.The indirect factors are: 1-Cusp form. 2-Crown to Root ratio. 3- Root form. 4-Angulation of crown and root 5- Self cleansing	1h	Carving upper 6 & identification of natural upper molars (permanent & deciduous)	4h
8 th week	Compensating curvatures -Dental arch formation (Alignment of the teeth) -Parabolic curve	1h	Carving &Drawing lower 6	4h

	-Bonwill triangle -Phases of development of the permanent teeth into dental arches			
9th week	Occlusion of anterior teeth (The contact relation of the incisors and canine in centric occlusion)	1h	Carving & Drawing lower 6	4h
10th week	Occlusion of posterior teeth (The contact relation of the premolars and molars in centric occlusion)	1h	Carving lower 6 & identification of natural lower molars (permanent & deciduous)	4h
11th week	Teeth at Different ages	1h	Teeth at Different ages & identification of natural teeth	4h
12th week	Mandible at different ages	1h	Mandible at different ages & identification of natural teeth	4h

4. Teaching and Learning Methods

4-1. Lectures using power point.

4-2. Lectures using videos.

4-3. Lectures with discussions

4-4. Practical and small group sessions:

a. Each practical session's preceded by slide tutorial demonstration, carving videos, drawing of different teeth and class discussions.

b. Demonstration of tooth carving in small groups.

4-5. Small discussion teaching

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge, understanding as well as general and transferable skills.

5-3. Multiple choice to assess knowledge and understanding

- 5-4. Practical examination to assess practical skills
- 5-5. Assignments to assess practical & general skills
- 5-6. Practical and carving book to assess practical skills

Weighting of Assessments

Mid-term Examination	30 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>
Total	100%

6. List of References

6-1. Course Notes

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- Handouts for certain topics.

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- Textbooks: Mary Bath-Balogh , Margaret J. Fehrenbach Dental Embryology Histology and Anatomy 2nd Edition , 2006

7. Facilities Required for Teaching and Learning

Lecture Halls:

- On the 1st, 2nd and 3rd floors, Faculty of Oral & Dental Medicine , Future University. White writing boards and data show is available with prior arrangement.

Small Group Classes:

- Three practical laboratories in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University.
- White writing boards and data show is available with prior arrangement.
- Models for different types of teeth , skills & mandibles (at different ages)
- Data show with camera
- Videos containing topics & presentations in dental anatomy & physiology

Library :

- On the second floor of Faculty of Oral & Dental Medicine, Future University.

Practical facilities :

- Models of different types of teeth, skulls and mandibles (at different ages).
 - Diagram illustrating the morphological features and anatomical landmarks of
 - Different types of teeth..
 - Wax blocks for carving
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√		√		√	√	
	a2	√	√		√		√	√	
	a3	√					√	√	
	a4	√					√		
	a5	√	√				√	√	
b	b1	√	√		√		√	√	
	b2	√	√		√		√	√	
	b3	√					√	√	
c	c1	√	√	√	√		√		
	c2		√	√	√		√		
d	d1		√				√		
	d2		√				√		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√	√	
	a2	√	√			√	√	√	
	a3	√	√			√	√	√	
	a4	√	√			√	√	√	
	a5	√	√			√	√	√	
b	b1	√	√			√	√	√	
	b2	√	√			√	√	√	
	b3	√	√			√	√	√	
c	c1	√		√		√			
	c2			√		√			

Course Coordinator: Prof Dr. Rehab Ali Abdel Moneim

Head of Department: Prof Dr. Rehab Ali Abdel Moneim

I. Course Information

Course Code	ENG101	Course Name	English Language 1	
Level	1	Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
<i>Total Hours</i>	Theoretical	Tutorial	Practical	
2	2	-	-	
Course Prerequisite(s)				
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the A2 academic reading and writing course to enable student's skills they have developed throughout the years and to progress toward an advanced level of literacy. (A1)
- Infer the varieties of challenging readings and discover the characteristics and conventions used by scholars in different disciplines. (A4)
- Demonstrate the A2 course to develop the core transferable skills in critical thinking, reading and writing that they will use in their university courses, regardless of their faculties. (A6)
- Use effectively communication skills. (A10)
- Carry out self-learning strategies for reading and writing more efficiently and for approaching new writing tasks. (A12)

IV. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
CK1, CK2, CK3, CK4	CI1, CI2, CI3, CI4, CI5	CP1, CP2, CP3, CP4, CP5	CT1, CT2, CT3, CT4

V. Intended Learning Outcomes of the Course (ILOs)

a) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Describe different aspects of life.
- CK2. Recognize text types
- CK3. Select master few simple grammatical structures and sentence patterns in a learned repertoire.
- CK4. Define basic vocabulary range of isolated words and phrases related to particular situations.

b) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Discriminate facts and information from texts
- CI2. Evaluate information
- CI3. Analyze texts through graphic organizers
- CI4. Apply their knowledge through engaging and communicative activities
- CI5. Infer meaning from various texts.

c) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Produce varied paragraphs
- CP2. Construct descriptive sentences
- CP3. Discover new ideas
- CP4. Demonstrate charts to organize ideas
- CP5. Predict simple phrases and sentences about themselves and imaginary people.

d) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Apply communication skills and techniques in presentations and report writing
- CT2. Work in a team effectively and efficiently considering time and stress management
- CT3. Apply quantitative methods and skills in understanding and presenting cases
- CT4. Appreciate continuous professional development and lifelong learning

VI. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Orientation People	1				
2	Seasons	1	CK1-CK4	CI1 - CI5		
3	Lifestyle	1	CK1-CK4	CI1 - CI5		
4	Places	1	CK1-CK4	CI1 - CI5		
5	Sport	1	CK1-CK4	CI1 - CI5		
6	Jobs	1	CK1-CK4	CI1 - CI5		
7	Food and Culture	1	CK1-CK4	CI1 - CI5		
8	The animal Kingdom	1	CK1-CK4	CI1 - CI5		
9	Transport	1	CK1-CK4	CI1 - CI5		
10	Presentation	2			CP1-CP5	CT1-CT4
Total Number of Teaching Weeks : 11						
**	<ul style="list-style-type: none"> • K.U. : Knowledge and Understanding • I.S. : Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VII. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	Orientation People	2	2	
2	Seasons	2	2	
3	Lifestyle	2	2	
4	Mid Term-1	2	2	
5	Places	2	2	
6	Sport	2	2	
7	Jobs	2		
8	Mid Term-2	2	2	
9	Food and Culture	2	2	
10	The animal Kingdom	2	2	
11	Transport	2	2	
12	Project presentation	2	2	
13	Presentation	2	2	
14-16	Final Exam	2		
Total Hours		28	24	

VIII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1-CK4	CI1 - CI5		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×	CK1-CK4	CI1 - CI5	CP1-CP5	CT1-CT4
7	Seminars					
8	Case Studies	×	CK1-CK4	CI1 - CI5		
10	Problem Solving					
11	Others (Participation)	×	CK1-CK4	CI1 - CI5		CT1-CT4
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 		

IX. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK4	CI1 - CI5			4-8	50%
2	Final Exam	×	CK1-CK4	CI1 - CI5			14-16	40%
3	Quizzes							
4	Assignments							
5	Presentations							
6	Individual Projects							
7	Research and Reporting							
8	Team Work Projects	×	CK1-CK4	CI1 - CI5	CP1-CP5	CT1-CT4		5%
9	Practical Exam							
10	Others (Participation)	×	CK1-CK4	CI1 - CI5		CT1-CT4		5%
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 				

X. References

Essential Text Books	Richard O'Neill, Unlock Reading & Writing Skills 2, Cambridge University Press
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	Essential Grammar in Use – Raymond Murray (Cambridge University Press)
Online Web Sites	<ul style="list-style-type: none">• TED Talks• www.ekb.eg
Others (Specify)	None

XI. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√			
PC/Laptop	√			
Data-Show	√			
Laser Pointer	√			
Internet	√			
Printer				√
Copier				√
Learning Management System (Moodle)			√	
Software Packages				
Laboratories				

- **Course Coordinator: Dr. Mahmoud Neshawy**
- **Head of The Department: Prof. Dr. Manal El-Kalay**
- **Date:**

I. Course Information

Course Code	ENG102	Course Name	English Language 2	
Level	1	Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
<i>Total Hours</i>	Theoretical	Tutorial	Practical	
2	2	-	-	
Course Prerequisite(s)				
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Compare, evaluate and select methodologies of the various techniques introduced within the course. (A1)
- Define the knowledge that enhances skills of reading and writing skills that develop the student's language practice. (A4)
- Use and adopt fundamental and advanced topics and functional lexis provide the reference by which language is introduced and recycled within clear natural contexts. (A5)
- Comprehend deeply the basic concepts of writing through a range of texts, by understanding genre specific conventions, and developing confidence by planning and discussions and by applying both process and product approaches. (A10)

IV. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
CK1, CK2, CK3, CK4	CI1, CI2, CI2, CI4, CI5	CP1, CP2, CP3, CP4, CP5	CT1, CT2, CT3, CT4

V. Intended Learning Outcomes of the Course (ILOs)

e) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Describe different aspects of life.
- CK2. Recognize text types
- CK3. Infer meaning from various texts.
- CK4. Summarize a given text or paragraph.

f) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Differentiate between two texts.
- CI2. Evaluate information
- CI3. Analyze texts through graphic organizers
- CI4. Apply their knowledge
- CI5. Predict content using visuals.

g) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Write varied paragraphs.
- CP2. Generate descriptive sentences
- CP3. Develop ideas.
- CP4. Construct charts to organize ideas

h) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Communicate effectively with others
- CT2. Work in a team
- CT3. Present topics clearly
- CT4. Use graphic organizers to analyze and produce

VI. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Orientation Places	1				
2	Festivals and Celebrations	1	CK1-CK4	CI1 - CI5		
3	School and Education	1	CK1-CK4	CI1 - CI5		
4	The Internet and Technology	1	CK1-CK4	CI1 - CI5		
5	Language and Communication	1	CK1-CK4	CI1 - CI5		
6	Weather and Climate	1	CK1-CK4	CI1 - CI5		
7	Sports and Competition	1	CK1-CK4	CI1 - CI5		
8	Business	1	CK1-CK4	CI1 - CI5		
9	People	1	CK1-CK4	CI1 - CI5		
10	Space and the Universe	1			CP1-CP4	CT1-CT4
11	Presentation	1			CP1-CP4	CT1-CT4
Total Number of Teaching Weeks : 11						
**	<ul style="list-style-type: none"> • K.U. : Knowledge and Understanding • I.S. : Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VII. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	Orientation Places	2		
2	Festivals and Celebrations	2		
3	School and Education	2		
4	First midterm exam	2		
5	The Internet and Technology	2		
6	Language and Communication	2		
7	Weather and Climate	2		
8	Second Midterm exam	2		
9	Sports and Competition	2		
10	Business	2		
11	People	2		
12	Space and the Universe	2		
13	Presentation	2		
14-16	Final Exam	2		
Total Hours		28		

VIII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1-CK4	CI1 - CI5		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×			CP1-CP4	CT1-CT4
5	Seminars					
6	Case Studies/Project	×	CK1-CK4	CI1 - CI5		
7	Problem Solving					
8	Others (Participation)	×	CK1-CK4	CI1 - CI5		CT1-CT4
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 		

IX. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK4	CI1 - CI5			4-8	50%
2	Final Exam	×	CK1-CK4	CI1 - CI5			14-16	40%
3	Quizzes							
4	Assignments							
5	Presentations							
6	Individual Projects							
7	Research and Reporting							
8	Team Work Projects	×	CK1-CK4	CI1 - CI5	CP1-CP4	CT1-CT4		5%
9	Practical Exam							
10	Others (Participation)	×	CK1-CK4	CI1 - CI5		CT1-CT4		5%
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 				

XI. References

Essential Text Books	Richard O'Neill, Unlock Reading & Writing Skills 2, Cambridge University Press
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	Essential Grammar in Use – Raymond Murray (Cambridge University Press)
Online Web Sites	<ul style="list-style-type: none"> • TED Talks • www.ekb.eg
Others (Specify)	None

XII. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√			
PC/Laptop	√			
Data-Show	√			
Laser Pointer	√			
Internet	√			
Printer				√
Copier				√
Learning Management System (Moodle)	√			
Software Packages				
Laboratories				

- **Course Coordinator: Dr. Wafaa El-Sayed**
- **Head of The Department: Prof. Dr. Manal El-Kalay**
- **Date:**

I. Course Information

Course Code	CSC101	Course Name	Introduction to Computer	
Level	1	Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	1
	<i>Contact Hours</i>			
	<i>Total Hours</i>	Theoretical	Tutorial	Practical
4	2	-	2	
Course Prerequisite(s)	None			
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Demonstrate knowledge and understanding of the basic elements of computer hardware and software and their roles in a computer system. (A1)
- Combine and evaluate different tools and facilities. (A2)
- Describe how to use Internet and WWW for searching and browsing information. (A5)
- Comprehend deeply the basic concepts of software development. (A12)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
K1, K3, K5	I1, I2, I3	P1, P3, P4 P5, P6	T1, T2, T4

IV. Intended Learning Outcomes of the Course (ILOs)

i) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1.** Describe the basic of software development. (K1)
- CK2.** Define the basics of application software. (K3)
- CK3.** Identify basic computer terminology. (K5)

j) Intellectual Skills

On completing the course, the student should be able to:

- CI1.** Analyze and design a solution for computing problems considering limitations and constrains. (I1)
- CI2.** Implement the solutions of computing and information in academic disciplines. (I2)
- CI3.** Determine measurement criteria for the deployment of computer systems. (I3)

k) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1.** Run computing equipment in different physical environment. (P1)
- CP2.** Install and maintain different supporting tools for construction and documentation software systems. (P3)
- CP3.** Realize information storage and retrieval skills in computing software systems. (P4)
- CP4.** Acquire a set of fundamental research skills from different resources. (P5)
- CP5.** Analyze, design, implement, test, maintain and manage software systems. (P6)

l) General and Transferable Skills

On completing the course, the student should be able to:

- CT1.** Exploit a range of learning resources. (T1)
- CT2.** Work in a team to develop the requirement documentation. (T2)
- CT3.** Apply communication skills in presentations and report writing using various methods and tools. (T4)

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Introduction To Computer and Information Technology & Computer Hardware Components	1	CK1 – CK3	CI1- CI3		
2	Computer Software , Computer Networks, Internet and WWW	1	CK1 – CK3	CI1- CI3		
3	Problem Solving Methodologies and Algorithmic Approach	1	CK1 – CK3	CI1- CI3	CP1–CP5	
4	Program development in C++	2	CK1 – CK3	CI1- CI3	CP1–CP5	
5	Basic Elements & Data Types of C++	2	CK1 – CK3	CI1- CI3	CP1–CP5	
6	Program development in C++ - Arithmetic C++ & Selection Control Structures	2	CK1 – CK3	CI1- CI3	CP1–CP5	
7	Program development in C++ - Repetitive C++ Structures (Loops)	2			CP1–CP5	
7	Project presentation	1				CT1 – CT3
Total Number of Teaching Weeks : 12						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	Introduction To Computer and Information Technology & Computer Hardware Components	4	2	2
2	Computer Software , Computer Networks, Internet and WWW	4	2	2
3	Problem Solving Methodologies and Algorithmic Approach	4	2	2
4	Program development in C++	4	2	2
5	Program development in C++	4	2	2
6	Basic Elements & Data Types of C++	4	2	2
7	Basic Elements & Data Types of C++	4	2	2
8	Program development in C++ - Arithmetic C++ & Selection Control Structures	4	2	2
9	Mid Term	2		
10	Program development in C++ - Arithmetic C++ & Selection Control Structures	4	2	2
11	Program development in C++ - Repetitive C++ Structures (Loops)	4	2	2
12	Program development in C++ - Repetitive C++ Structures (Loops)	4	2	2
13	Project presentation	4	2	2
14-16	Final Exam	2		
Total Hours		52	24	24

VII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1 – CK3	CI1- CI3		
2	Tutorials					
3	Practical Lab Sessions	×			CP1 - CP3	
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×	CK1 – CK3	CI1 – CI3	CP1 - CP3	CT1, CT2
5	Seminars					
6	Case Studies					
7	Problem Solving					
8	Others (Specify)					
**	<ul style="list-style-type: none"> • K.U. : Knowledge and Understanding • I.S. : Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VIII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1 – CK3	CI1- CI3			9	40%
2	Final Exam	×	CK1 – CK3	CI1- CI3			14-16	40%
3	Quizzes							
4	Assignments							
5	Presentations							
6	Individual Projects							
7	Research and Reporting							
8	Team Work Projects	×	CK1 - CK3	CI1- CI3				10%
9	Practical Exam				CP1–CP5	CT1 – CT3		10%
10	Others (Participation)							
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 					

IX. References

Essential Text Books	Frank L. Friedman, Elliot B. Koffman, Problem Solving, Abstraction, and Design using C++, 6 th edition, ISBN: 978-0136079477
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	Brian K. Williams, Stacey Sawyer, "Using Information Technology: a Practical Introduction to Computer & Communication," 11 th International Edition, McGraw Hill, 2013.
Online Web Sites	<ul style="list-style-type: none"> • www.ekb.eg
Others (Specify)	None

XI. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√	√	√	
PC/Laptop	√	√	√	
Data-Show	√	√	√	
Laser Pointer	√			
Internet	√		√	
Printer				√
Copier				√
Learning Management System (Moodle)	√			
Software Packages	C/C++			
Laboratories	Software Lab			

- **Course Coordinator: Prof. Dr. Awad Khalil**
- **Head of The Department: Prof. Dr. Ramadan Moawad**
- **Date:**

I. Course Information

Course Code	PS110	Course Name	Human Rights	
Level	2	Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
<i>Total Hours</i>	Theoretical	Tutorial	Practical	
2	2	-	-	
Course Prerequisite(s)				
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the basic concepts and theories of human rights, the development of human rights framework and multi- disciplinary character of the field as an area of the study. (A1)
- Demonstrate professional responsibilities, ethical, cultural and societal aspects of Human Rights, the international covenant on economic, social and cultural rights and all related agreements. (A6)
- Deal with the state of human rights in Egypt and the Arab world. (A8)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code

Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
CK1, CK2, CK3, CK4	CI1, CI2, CI3, CI4, CI5	CP1, CP2, CP3, CP4, CP5	CT1, CT2, CT3, CT4

IV. Intended Learning Outcomes of the Course (ILOs)

m) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Recognize the links, contests and conflicts between (largely, but not exclusively, economic) globalization and human rights
- CK2. List the ways of promoting and protecting human rights
- CK3. Illustrate power relationships and roles of diverse actors, including civil society
- CK4. Recognize public policy implications, particularly as they relate to Egypt in the Middle East as well as global contexts

n) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Differentiate between two texts
- CI2. Evaluate information
- CI3. Analyze texts through graphic organizers
- CI4. Apply their knowledge
- CI5. Predict content using visuals

o) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Apply different soft skills by oral, written, presentations and visual means in a professional way
- CP2. Create technical reports according to professional standards

p) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Carry debates effectively with people about globalization and ways of promoting and protecting human rights
- CT2. Communicate effectively with others
- CT3. Participate in small teams
- CT4. Present any of the key themes of the course
- CT5. Discuss topics based on the readings

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Orientation Places	1				
2	Festivals and Celebrations	1	CK1-CK4	CI1 - CI5		
3	School and Education	1	CK1-CK4	CI1 - CI5		
4	The Internet and Technology	1	CK1-CK4	CI1 - CI5		
5	Language and Communication	1	CK1-CK4	CI1 - CI5		
6	Weather and Climate	1	CK1-CK4	CI1 - CI5		

7	Sports and Competition	1	CK1-CK4	CI1 - CI5		
8	Business	1	CK1-CK4	CI1 - CI5		
9	People	1	CK1-CK4	CI1 - CI5		
10	Space and the Universe	1	CK1-CK4	CI1 - CI5		
11	Project presentation	1			CP1-CP2	CT1-CT5
Total Number of Teaching Weeks : 11						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	Development of the concept of human rights	2		
2	Nature and sources of the rights	2		
3	Types of rights	2		
4	Universal declaration of human rights + First Midterm Exam	2		
5	International organization involved in human rights issues	2		
6	United Nations	2		
7	Monitoring human rights on the national and the international level	2		
8	Second Midterm exam	2		
9	Monitoring bodies	2		
10	Enforcing human rights on the national level	2		
11	Role of civil society	2		
12	Overall assessment for human rights practices world wide	2		
13	Project presentation	2		
14-16	Final Exam	2		
Total Hours		28		

Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1-CK4	CI1 - CI5		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×			CP1-CP2	CT1-CT5
5	Seminars					
6	Case Studies/Project	×	CK1-CK4	CI1 - CI5		
7	Problem Solving					
8	Others (Participation)	×	CK1-CK4	CI1 - CI5		CT1-CT5
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 		

VII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK4	CI1 - CI5			4-7	30%
2	Final Exam	×	CK1-CK4	CI1 - CI5			14-16	40%
3	Quizzes							
4	Assignments							
5	Presentations							
6	Individual Projects							
7	Research and Reporting	×	CK1-CK4	CI1 - CI5	CP1-CP2	CT1-CT5		10%
8	Team Work Projects	×	CK1-CK4	CI1 - CI5	CP1-CP2	CT1-CT5		10%
9	Practical Exam							
10	Others (Participation-Attendance)	×	CK1-CK4	CI1 - CI5		CT1-CT5		10%
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 				

IX. References

Essential Text Books	<ul style="list-style-type: none"> • Brown, Chris, Sovereignty, Rights and Justice: International Political Theory Today. Cambridge: Polity Press, 2002. • Forsythe, David P., Human Rights in International Relations, 2nd edition. Cambridge: Cambridge University Press, 2006. • Goodhart, Michael (Ed.), Human Rights - Politics and Practice, Oxford: Oxford University Press, 2009.
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	<ul style="list-style-type: none"> • Maogoto, Jackson Nyamuya, War Crimes and Realpolitik: International Justice from World War I to the 21st Century. Boulder: Lynne Rienner, 2004. • Wheeler, Nicholas J., Saving Strangers: Humanitarian Intervention in International Society. Oxford: Oxford University Press, 2000.
Online Web Sites	<ul style="list-style-type: none"> • TED Talks • www.ekb.eg
Others (Specify)	None

X. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√			
PC/Laptop	√			
Data-Show	√			
Laser Pointer	√			
Internet	√			
Printer				√
Copier				√
Learning Management System (Moodle)			√	
Software Packages				
Laboratories				

- **Course Coordinator:Dr. Amina El-Sawy**
- **Head of The Department:**
- **Date:**

Future University

Faculty of Oral and Dental Medicine

**Course Specifications
for General (Medical) Histology
Course Specifications**

Program on which the course is given: Bachelor of Dental Medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Department of Supplementary Sciences

Academic Year / Level: Second Year / 3rd semester

A- Basic Information

Course Title	General Histology
Code	SGs 251
Credit Hours	3
Lecture /week	2h
Practicals / week	2h
Total	4h

Pre-requisite: Biology

B- Professional Information

1. Overall Aims of Course

- To teach the students the basic histological structure of different cells and tissues of human body, preparing them for studying organs and systems.
- Making correlation between function and structure of various cells, tissues, organs and their related medical applications.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding : by the end of the course, student should be able to:

a1- Define and recall the histological characteristics of normal cells in relation to

function and clinical applications.

a2- Define and recall different blood cells and the applied clinical states related to

change in their count/ %.

a3- Define and recall the basic histological tissues of the body (General Histology) and some systems (Vascular, Lymphatic, Skin, Digestive and Endocrine Glands) in relation to function and clinical applications.

b) Intellectual Skills: by the end of the course, student should be able to:

b1- Correlate between histological structure & function of any cell, tissue or organ.

b2- Diagnose data show and microscopic slides different from those seen during his course but of the same organs or tissues previously studied.

b3- Identify various clinical applications related to cells, tissues or organs.

c) Professional and Practical Skills: by the end of the course, student should be

able to:

c1- Recognize and diagnose different examined cell organelles.

c2- Recognize and diagnose different blood cells in blood films.

c3- Examine different types of epithelium, connective tissue cells, types of connective tissue proper, cartilage & bone cells.

c4- Differentiate between different tissues and organs in histological sections using routine, special stains and ultrathin sections.

d) General and transferable skills: By the end of the course the student should be able to:

d1) Plan, execute and present an independent piece of work (an essay) within a supported framework.

d2) Update their knowledge of histology by using recent references.

d3) Acquire presentational techniques and communication skills including the ability to organize lectures and labs.

d4) Acquire ability to communicate topics to others and to correlate relevant scientific issues.

d5) Acquire interpersonal skills which allow them to participate in co-operative group planning and making decision.

d6) Recognize the applicability of histology to their progressing careers.

d7) Acquire ability to relate Applied Medicine to Basic Medical Science.

3. Course content:

Ser.	Lecture	Lab
1	Cytology: Membranous organelles (cell membrane, mitochondria, rER, sER, Golgi, lysosomes, peroxisomes) LM, EM, molecular structure, functional Histology, medical applications	Membranous organelles
2	Nonmembranous organelles (ribosomes, cytoskeleton) LM, EM, molecular structure, functional Histology, medical applications	Nonmembranous organelles
3	Proteasomes, Nucleus LM, EM, molecular structure, functional Histology, medical applications	Nucleus
4	Epithelium (classification, examples and medical applications)	Epithelium
5	Connective Tissue Proper (cells, fibers, types and medical applications)	Connective Tissue Proper types
6	Cartilage (cells, fibers, types, sites and medical applications)	Cartilage types
7	Bone (general structure{periosteum, cells, matrix, endoste, types, sites, ossification and medical applications)	Bone types
8	Blood (RBCs, WBCs, platelets, medical conditions)	Blood
9	Muscular tissue (skeletal muscle, LM, EM, molecular biology, comparison with cardiac and smooth muscles and medical applications)	Muscular tissue
10	Nervous tissue (Nerve cell classification, structure, nerve processes, nerve trunk, ganglia and medical applications) Cardiovascular System (vessels, capillaries & medical applications)	Nervous tissue Cardiovascular System
11	Lymphatic System (lymph node, spleen, tonsils {structure, function and medical applications})	Lymphatic System
12	Skin (types, structure and medical applications)	Skin
13	Digestive and endocrine glands	Glands

4. Teaching and Learning Methods

- 4-1. Data show slides, light microscope and demonstration drawings
- 4-2. Lectures
- 4-3. Practical training
- 4-4. Demonstrations
- 4-6. Small group discussion

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and understanding.
- 5-3. Practical examination to assess practical skills in data show slides,
under the microscope, intellectual skills, general and transferable skills
- 5-4. Practical notebook assignment to assess attendance and drawing skills
- 5-5. Weekly quizzes
- 5-6. Researches
- 5-7. case study.

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Practical and theoretical quizzes

Assessment 4: Final written

Assessment 5: Oral exam

Assessment 6: Practical exam

Weighting of Assessments

1 st Mid Term Examination	15%
2 nd Mid Term Examination	15%
Oral Examination	10%
Practical Examination	15%
Final Written Examination	25%
<u>Quizzes, Assignments & research</u>	<u>20%</u>
Total	100%

6. References

6-1. Course Lectures and Practical D,S. slides available online (intranet)

6-2. Essential Books (Text Books)

- Mesher' s Basic Histology for undergraduate medical students
- Mesher' s Atlas of Histology for undergraduate medical students
- Overhead projections, slides and computer presentations used during teaching

6-3. Recommended Books

- CD-ROM containing topics in the curriculum provided with photomicrographs of these topics
- **Mescher AL (2016):** Junqueira's Basic Histology Text and Atlas, 14th edition, McGraw-Hill, Singapore United States.
- **Pawlina W (2016):** Histology A Text and Atlas with Correlated Cell and Molecular Biology, 7th edition, Wolters Kluwer, Philadelphia.
- **Gartner LP and Hiatt JL (2014):** Color Atlas and Text of Histology, 6th edition, Wolters Kluwer Lippincott Williams and Wilkins, Philadelphia.
- **Young B, Woodford P and O'Dowd G (2014):** Wheater's Functional Histology: A Text and Colour Atlas, 6th edition, Elsevier Churchill Livingstone, United States of America.

6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- The students are divided into groups in lecture halls for one lecture weekly.
- The students are divided into smaller groups distributed on 2/3 available labs. (Each small group is about 40-50 students).
- Computer facilities
- Practical Laboratories: (Supplied with data show, white boards and microscopes)

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√				√		
	a2	√	√				√		
	a3	√	√				√		
b	b1		√						
	b2		√						
	b3		√						
c	c1			√	√				
	c2			√	√				
	c3			√	√				
	c4			√	√				
d	d1				√				
	d2				√				
	d3				√				
	d4				√				
	d5				√				
	d6				√				
	d7				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√	√	
	a2	√	√			√	√	√	
	a3	√	√			√	√	√	
b	b1	√	√			√	√	√	
	b2	√	√			√	√	√	
	b3	√	√			√	√	√	
c	c1			√					
	c2			√					
	c3			√					
	c4			√					
d	d1			√			√	√	
	d2			√			√	√	
	d3			√			√	√	
	d4			√			√	√	
	d5			√			√	√	
	d6			√			√	√	
	d7			√			√	√	

Course Coordinator: Prof Dr Maha Baligh Zickri

Head of Department: Prof Dr Nagwa Roshdy

Date: 11 /11 / 2017

Course Specifications
General Anatomy
SGS 271

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Offering the program: Faculty of Oral and Dental Medicine

Department offering the course: General Anatomy

Academic Year / Level: Second Year / 3rd semester

A- Basic Information

Course Title	General AnatomyI
Code	SGS 271
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-requisite: SGS142

B- Professional Information

1. Overall Aims of Course

- To provide a core body of scientific Knowledge concerning the normal structure of the different parts of the human body at the level of organ and systems.
- To apply the anatomical facts while examining the living subject in order to reach a proper diagnosis.
- To identify the different surface markings and determine the position or course of an internal viscera or structure.
- To interpret the normal anatomical structures on radiographs, ultra-sonographies and understand the nuclear magnetic resonance images.
- To get acquainted with normal endoscopic pictures or patterns of the widely used endoscopies.
- To get student understand the different stages of development and detect the common abnormalities that might occur during development and growth.
- To provide appropriate ethical and professional education necessary for dealing with cadavers and to correlate anatomical facts with its clinical application.

3. Intended Learning Outcomes of Course (ILOs)

A)-Knowledge and Understanding:

By the end of the course, every student must be able to:

- a1- Describe the basic principles of structure of the different tissues, organs and systems of the human body.
- a2- Outline major of clinical applications in the core syllabus of anatomical facts.

B)-Intellectual Skills:

By the end of the course, every student must be able to:

- b1- Interpret the surface landmarks of the underlying bony features, muscles and tendons, of internal structures (main nerves, vessels and viscera).
- b2- Interpret the normal anatomical structures on radiographs, ultrasonography, C.T, nuclear magnetic resonance images and endoscopic pictures.

C)- Professional and Practical Skills:

By the end of the course, every student must be able to:

- c1- Identify the different surface markings and determine the position or course of an internal viscera or structure of the body.
- c2- Identify the different organs, structure and their parts in cadavers and jars.

D)- General and Transferable Skills:

By the end of the course, every student must be able to:

- d1- Maintain honesty and integrity in all interactions with teachers ,colleagues and others with whom physicians must interact in their professional lives.
- d2- Value the ethics and respect to all individuals inside and outside the dissecting room and pay a good deal of respect to the cadavers.
- d3- Recognize the scope and limits of his role as well as the necessity to seek and apply regularly the collaboration of other workers.
- d4- Gain the responsibility towards work and maintain calmness in unusual situation.
- d5- Maintain a professional image in manner, dress and speech.

4. Course Contents:

Introduction to human anatomy

Lectures for acquisition of knowledge including seminars and group discussion.

Definitions

- Anatomy and its fields (one hours)
- Anatomical Terms (one hours)
- Bones (2 hours)
- Cartilage (one hour)
- Joints: (3 hours)
- Muscles (2 hours)
- Fasciae (2 hour)
- Cardiovascular System (2 hours)
- Lymphatic System (2 hours)
- Nervous System: (3 hours)
- Glands (one hour)

Practical Lessons

A. Study morphology of all bones of the body according to this scheme:

1. Name and type of the bone.
2. Site of the bone in the body and its side (right or left)
3. General features.
4. Articulations: joints related and their types.

B. Identification of some human organs such as:

Heart, lung, brain, kidney, spleen, liver, stomach.

5. Teaching and Learning Methods

4-1. Lectures for acquisition of knowledge 2 in big groups, 4 times per-week.

4-2. Practical classes: including practical dissection and demonstration in the dissecting room and museum jars and radiological film.

4-3. Tutorial classes: 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson.

4-4. As appropriate such as self-assessment questions in the form of short essay, MCQs beside a notebook to draw annotated diagrams for most of practical lessons.

7. Student Assessment methods

5-1. Written examination : (3) hours Assessment of Knowledge and understanding

5-2. Oral examination : (10-15) minutes Assessment of Knowledge ,intellectual skills and general and transferred skills.

5-3. Practical examination:minutes(two) Assessment of Identification Knowledge of different organs & Stnctur,8x.Ray 8C.T. films

5-4. Logbook Assessment of practical activities:8 MCQ questions 8 drawings.

Weighting of Assessments

Mid Term Examination	30%
Mid Term Practical Examination	20%
Oral Examination	10%
Practical Examination	15%
Final Written Examination	25%
Total	100%

Any formative only assessments

8. List of References

- Course Notes
- Gray's Anatomy for student
- Netter's Head and Neck Anatomy for Dentistry. 2nd edition.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
b	b1			√	√				
	b2			√	√				
c	c1			√	√				
	c2			√	√				
d	d1			√	√				
	d2			√	√				
	d3			√	√				
	d4			√	√				
	d5			√	√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√						
	a2	√	√						
	a3								
	a4								
	a5								
b	b1		√	√				√	
	b2		√	√				√	
c	c1			√					√
	c2			√					√
	c3								
d	d1							√	
	d2							√	
	d3							√	
	d4							√	
	d5							√	

Head of departement: Prof / Nabila Adib

Course Coordinator: Prof./ Mervat Thabet

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
General Anatomy
SGS 272

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: General Anatomy

Academic Year / Level: Second Year / 4th semester

A- Basic Information

Course Title	General Anatomy 2
Code	SGS 272
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-requisite: SGS271

B- Professional Information

1. Overall Aims of Course

- To apply the anatomical facts while examining the living subject in order to reach a proper diagnosis.
- To identify the different surface markings of head and neck and determine the position and course of an internal viscera and structure.
- To interpret the normal anatomical structures of head and neck on radiographs, ultrasonographies and understand the magnetic resonance images of different regions of head and neck .
- To get acquainted with normal endoscopic pictures or patterns of paranasal sinuses of the widely used endoscopies for sinus surgery.
- To provide appropriate ethical and professional education necessary for dealing with cadavers.
- To correlate anatomical facts with its clinical application.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding :

By the end of this course , every student must be able to:

a1-Describe the basic principles of structure of the different muscles,organs and glands of head and neck.

a2-Describe the surface landmarks of the underlying bony features of skull and mandible, muscles and of internal structures of head and neck (main nerves,vessels and viscera).

a3-Outline major of clinical applications in the core syllabus of anatomical facts.

b) Intellectual Skills:

By the end of this course , every student must be able to:

b1-Identify the different surface markings and determine the position or course of an internal viscera or structure of the head and neck.

b2-Interprets some clinical findings in relation to developmental basis.

C)- Professional and Practical Skills:

By the end of this course , every student must be able to:

c1-Apply the anatomical facts while examining the living subject in order to reach a proper diagnosis.

c2-Identify the different organs, glands, major vessels and nerves incadavers and jars.

c3-Interpret the normal anatomical structures of head and neck on radiographs and utrasonographics C.T the nuclear magnetic resonanceimages and endoscopic pictures.

D)-General Skills:

By the end of this course , every student must be able to:

d1- Maintain honesty and integrity in all interactions with teachers, colleagues and others with whom physicians must interact in their professional lives.

d2- Identify the limits of his role as well as the necessity to seek and apply regularly the collaboration of other workers.

d3- Be responsible towards work and be able to maintain calmness in unusual situation.

d4-Maintain a professional image in manner, dress and speech.

d5- Value the ethics and respect to all individuals inside and outside the dissecting room and pay a good deal of respect to the cadavers.

3. Course Contents:

Anatomy of head and neck

Lectures for acquisition of knowledge including seminars and group discussion.

Definition

- The skull: General and particular features: - Bones forming the skull (name, position and parts of each)- Major foramina and fissures with structures passing: 3 hours
- The mandible: one hour
- The cervical vertebrae and The first rib: one hour
- The scalp: one hour
- The face: one hour
- The Parotid gland: one hour
- The Temporal and infratemporal regions: two hours
- The temporomandibular joint: one hour
- The cranial cavity: two hours
- The anatomy of the neck: two hours
- The side of the neck:
- The submandibular region: one hours
- The thyroid gland: one hour
- The scalene muscles: one hour
- The big vessels of the head and neck : two hours
- The lymphatic drainage of the head and neck: one hour
- The cranial nerves: two hours
- The cervical sympathetic chain: one hour
- The lacrimal apparatus: one hour
- The mouth cavity: one hours
- The tongue: one hour
- The nasal cavity: one hour
- The paranasal air sinuses: one hour
- The palate: one hour
- The pharynx: one hour
- The larynx: one hour

Practical Lessons

A. Study morphology of all bones of the skull, mandible and cervical vertebrae.

B. Identification of glands, muscle and major vessels of head and neck.

4. Teaching and Learning Methods

4-1. Lectures for acquisition of knowledge 2 hours in big groups, 4 times per-week.

4-2. Practical classes: including practical dissection and demonstration in the dissecting room and museum jars and radiological film

4-3. Tutorial classes: 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson.

4-4. As appropriate such as self-assessment questions in the form of short essay, MCQs beside a notebook to draw annotated diagrams for most of practical lessons.

5. Student Assessment methods

5-1. Written examination : (3) hours Assessment of Knowledge and understanding.

5-2. Oral examination : (10-15) minutes Assessment of Knowledge and understanding C.T. films.

5-3. Practical examinations minutes(two) Assessment of Identification Knowledge of different organs & Structure, 8x.Ray 8C.T. films

5-4. Logbook Assessment of practical activities 8 MCQ questions 8 drawings.

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30%
Mid Term Practical Examination	20%
Oral Examination	10%
Practical Examination	15%
Final Written Examination	25%
Total	100%

Any formative only assessments

7. List of References

- Course Notes
- Gray's Anatomy for student
- Netter's Head and Neck Anatomy for Dentistry.2nd edition.

8. Facilities Required for Teaching and Learning

- Lecture Rooms
- Labs

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
b	b1			√	√				
	b2			√	√				
c	c1			√	√				
	c2			√	√				
	c3			√	√				
d	d1			√	√				
	d2			√	√				
	d3			√	√				
	d4			√	√				
	d5			√	√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
b	b1			√				√	
	b2			√				√	
c	c1			√					
	c2			√					
	c3			√					
d	d1			√				√	
	d2			√				√	
	d3			√				√	
	d4			√				√	
	d5			√				√	

Head of Departement: Prof / Nabila Adib

Course Coordinator: Prof/Mervat Thabet

Date: / /

Future University

Faculty of Oral and Dental Medicine

Course Specifications
Biochemistry I
SGS 261

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: Second Year / 3rd semester

A- Basic Information

Course Title	Biochemistry I
Code	SGS 261
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-requisite: Chemistry

B- Professional Information

1. Overall Aims of Course

The Course Explains the Chemistry of Biological Molecules. It makes the student to understand the Chemical nature of different molecules inside the body. It also enables the student to understand the chemical function of Biomolecules and highlights the importance of individual molecules inside the cell.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding : by the end of the course, every student should be able to:

a1-Describe the structure and importance of carbohydrates.

a2- Point out the structure and functions of proteins.

a3-Demonstrate the structure and significance of lipids of medical importance.

a4- Demonstrate the basic structure and functions of Immunoglobulins.

a5- Discuss the basic principles of molecular Biology

b) Intellectual Skills: by the end of the course, student should be able to:

b1-Differentiate between structures of carbohydrates, lipids and proteins.

b2-Explain the importance of some molecular biology techniques (e.g. PCR)

b3-Explain the role of enzymes in regulation of chemical reactions in the body

c) Professional and Practical Skills: by the end of the course, every student should be able to:

c1-Perform some basic laboratory tests

c2-Identify unknown carbohydrate solution

c3- Identify unknown protein solution

d) General and transferable skills: by the end of the course, every student should be able to:

d1-Work effectively in groups.

d2- Exercise leadership when appropriate.

d3-Act responsibly in personal and professional relationships.

d4-Take responsibility for their own learning and continuing personal and professional development.

d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents and schedule:

Ser.	TOPIC
1	Chemistry of Carbohydrates
2	Chemistry of Lipids
3	Chemistry of Amino acids
4	Chemistry of Proteins
5	Chemistry of Immunoglobulins
6	Chemistry of Nucleotides
7	Chemistry of Nucleic acids
8	Chemistry of Enzymes

4. Teaching and Learning Methods

Methods used

4-1. Lectures

4-2. Practical training

4-3. Small group discussion

5. Student Assessment Methods

5-1. Written examination (short questions, multiple choice

5-2. Oral examination

5-3. Practical exam

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30 %
Oral Examination	10 %
Practical Examination	15 %
Final Written Examination	25 %
Class work and behavior	20%
Total	100%

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books): Lippincott's illustrated Reviews: Biochemistry, 7th edition, 2014

6-3. Recommended Books: Harper's Illustrated Biochemistry 30th edition, 2015.

6-4. Periodicals, Web Sites,...etc

7. Facilities Required for Teaching and Learning:

-Lecture halls: Properly aired, illuminated and equipped with data show and computer facilities

-Practical Laboratories: Suitable for number of students/each Lab. Supplied with the necessary equipment, chemicals and gas supply.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
	a4	√	√						
	a5	√	√						
b	b1		√						
	b2		√						
	b3		√						
c	c1			√	√				
	c2			√	√				
	c3			√	√				
d	d1				√				
	d2				√				
	d3				√				
	d4				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√	√	
	a2	√	√			√	√	√	
	a3	√	√			√	√	√	
	a4	√	√			√	√	√	
	a5	√	√			√	√	√	
b	b1	√	√			√	√	√	
	b2	√	√			√	√	√	
	b3	√	√			√	√	√	
c	c1			√					
	c2			√					
	c3			√					
d	d1			√			√	√	
	d2			√			√	√	
	d3			√			√	√	
	d4			√			√	√	

Course Coordinator: Prof. Nagwa Roshdy

Head of Department: Prof. Nagwa Roshdy

Date: 1/9/2017

Future University

Faculty of Oral and Dental Medicine

Course Specifications for Biochemistry II

SGS 262

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: Second Year / 4th semester

A- Basic Information

Course Title	Biochemistry II
Code	SGS 262
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-requisite: Biochemistry I

B- Professional Information

1. Overall Aims of Course

The Course Explains the metabolism of Biological Molecules. It makes the student to understand the metabolic changes of different molecules inside the body. It also enables the student to understand the basic principles of errors of metabolism and their reflection on the health of the individual.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding : by the end of the course, every student should be able to:

a1-Describe digestion and absorption of carbohydrates, proteins and lipids.

a2- Describe the metabolic pathways

a3-Discuss the principles of metabolic pathways.

a4-Point out the importance of vitamins.

a5-Describe the basic principles of some metabolic errors

b) Intellectual Skills: by the end of the course, every student should be able to:

b1-Explain basis of metabolic reactions.

B2-Point out basis of errors in metabolism

B3-Differentiate between metabolism in health and in disease

B4-Explain the role of vitamin deficiency in development of some diseases.

c) Professional and Practical Skills: by the end of the course, student should be able to:

c1- Perform basic laboratory tests

c2-Detect abnormal constituents of urine

c3-Write a urine report

c4-Solve case problem

d) General and transferable skills: by the end of the course, student should be able to:

d1-Work effectively in groups

d2- Exercise leadership when appropriate.

d3-Act responsibly in personal and professional relationships.

d4-Take responsibility for their own learning and continuing personal and professional development.

d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course content:

Ser.	TOPIC
1-	Bioenergetics and Krebs' cycle
2-	Digestion and absorption of Carbohydrates
3-	Metabolism of Carbohydrates
4-	Digestion and absorption of lipids
5-	Metabolism of lipids
6-	Regulation of blood glucose level and Diabetes Mellitus
7-	Digestion and absorption of proteins
8-	Metabolism of proteins
9-	Vitamins

4. Teaching and Learning Methods

Methods used

- 4-1. Lectures
- 4-2. Practical training and requirements
- 4-3. Small group discussion

5. Student Assessment Methods

- 5-1. Written examination.
- 5-2. Oral examination.
- 5-3. Practical exam.
- 5-4. Presentation.
- 5-5. Quizzes.
- 5-6. Assignments.
- 5-7. case study.

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30 %
Oral Examination	10 %
Practical Examination	15 %
Final Written Examination	25 %
Assignment and class work	20%
Total	100%

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books): Lippincott's illustrated Reviews: Biochemistry, 7th edition, 2014

6-3. Recommended Books: Harper's Illustrated Biochemistry 30th edition, 2015.

6-4. Periodicals, Web Sites,...etc

7. Facilities Required for Teaching and Learning

-Lecture halls:

-computer facilities

-Practical Laboratories: (Supplied with the necessary equipment, chemicals and gas supply.)

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
	a4	√	√						
	a5	√	√						
b	b1		√						
	b2		√						
	b3		√						
	b4		√						
c	c1			√	√				
	c2			√	√				
	c3			√	√				
	c4			√	√				
d	d1				√				
	d2				√				
	d3				√				
	d4				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√	√	
	a2	√	√			√	√	√	
	a3	√	√			√	√	√	
	a4	√	√			√	√	√	
	a5	√	√			√	√	√	
b	b1	√	√			√	√	√	
	b2	√	√			√	√	√	
	b3	√	√			√	√	√	
	b4	√	√			√	√	√	
c	c1			√					
	c2			√					
	c3			√					
	c4			√					
d	d1			√			√	√	
	d2			√			√	√	
	d3			√			√	√	
	d4			√			√	√	

Course Coordinator: Prof. Nagwa Roshdy
Head of Department: Prof. Nagwa Roshdy
Date: 1 / 9 /2017

Future University in Egypt
Faculty of Oral and Dental Medicine

Course Specifications for
Human Physiology
SGS 281

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery
Faculty offering the program: **Faculty of Oral and Dental Medicine**
Department offering the course: supplementary-science (**Human Physiology**)
Academic Year / Level: Second Year / 3rd semester

A- Basic Information

Course Title	Human Physiology
Code	SGS 281
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

No pre-Request.

B- Professional Information

1. Overall Aims of Course

- To explore in details the function of the different systems in the body.
- To develop the basic skills required for scientific thinking as well as effective communications and team work skills

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course every student will be able to:

a1- Describe the function of the different systems in the body at the organ and cellular levels (blood, autonomic nervous system, nerve & muscle & cardiovascular system and their regulation to achieve homeostasis).

a2- Identify function of blood composition of plasma and function of plasma protein , red blood cells & hemoglobin & types & causes of anemia. Describe clotting & anti clotting mechanism & discuss blood groups & its clinical significance.

a3- Identify function organization of autonomic nervous system, its functions, chemical transmitter at autonomic nervous system.

a4- Explain physiology of nerve (resting mechanism potential, action potential, local response). Identify neuromuscular transmission and excitation contraction coupling in skeletal muscle and explain factors affecting skeletal muscle contraction.

a5- Identify cardiovascular physiology organization of cardiovascular system. Describe cardiac properties and cardiac output regulation. Explain mechanisms regulating arterial blood pressures & factors that determine it. Describe exchange across blood capillaries and identify causes of edema.

a6- Describe homeostasis and its importance for body functions

a7- Label diagrams related to functions

b) Intellectual Skills:

By the end of this course the student should be able to:

- b1- Distinguish between physiological and pathological performance of different body systems
- b2- Explain the basic physiological measurements that can be used to test different body systems
- b3- Use acquired knowledge to solve basic clinical problems related to topics taught and learned

c) Professional and Practical Skills by the end of the course every student will be able to:

- c1- Measure blood pressure and monitor basic vital signs.
- c2- Comment on a normal ECG tracing

d)- General and transferable skills

By the end of this course the student should be able to:

- d1- Identify the ethical issues involved in scientific and medical work
- d2- Apply the skills required for team work
- d3- Use effective communication skills to present a topic

3. Course Contents

week	Topic		
	content	Lecture	practical
1	Blood and The plasma	2 hour	2 hour
2	RBCs, blood groups, anaemia	2 hour	2 hour
3	Platelets	2 hour	2 hour
4	Haemostasis	2 hour	2 hour
5	White cells and Immunity	2 hour	First midterm exam
6	Autonomic nervous system Introduction	2 hour	2 hour
7	Sympathetic nervous system	2 hour	2 hour
8	Parasympathetic nervous system & chemical transmission	2 hour	Class work
9	Excitable tissues & nerve resting membrane potential & action potential	2 hour	2 hour
10	Neuromuscular transmission & skeletal muscle contraction	2 hour	Second midterm exam
11	Introduction to	2 hour	2 hour

	Cardiovascular system		
12	Cardiac properties and Cardiac output	2 hour	2 hour
13	Regulation of arterial blood pressure & capillary circulation & hemorrhagic shock	2 hour	2 hour

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Practical training
- 4-3. Over head projector
- 4-4. Slide projector
- 4-5. Data show and power point presentation
- 4-6. Resources

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding.
- 5-2. Practical exam to assess practical and intellectual skills
- 5-3. Oral exam to assess knowledge , understanding., intellectual and general skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Review of medical physiology, twenty-sixth edition, William F. Ganong 2016
- 6-2. Guyton and Hall Text book of medical physiology, thirteen edition 2016

7. Facilities Required for Teaching and Learning

Lecture halls:

- On the first floor of the faculty of medicine
- Black board and white board and overhead projectors are available.
- Data show is available with previous arrangements.

Small group classes:

- Two teaching rooms and practical lab in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University
- Black board and white board and overhead projectors are available.
- Data show is available with previous arrangements.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√							
	a4	√							
	a5	√							
	a6	√							
	a7	√							
b	b1			√	√				
	b2			√	√				
	b3			√	√				
c	c1				√				
	c2				√				
d	d1		√						
	d2		√						
	d3		√						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√						
	a2	√	√						
	a3	√							
	a4	√							
	a5	√							
	a6	√							
	a7	√							
b	b1		√	√					
	b2		√	√					
	b3		√	√					
c	c1			√				√	
	c2			√				√	
d	d1							√	
	d2							√	
	d3							√	

Head of department: Prof. Dr. Nagat Younan

Date: / /

Course Specifications for Human Physiology

SGS 282

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the program: **Faculty of Oral and Dental Medicine**

Department offering the course: supplementary science

Academic Year /Level: Second Year / 4th semester

A- Basic Information

Course Title	Human Physiology
Code	SGS 282
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-Request: SGS 281

B- Professional Information

1. Overall Aims of Course

- To use the acquired knowledge and skills effectively to solve clinically relevant problems

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course every student will be able to:

a1- Describe basic function of the respiratory system and its peripheral and central control mechanisms- identify respiratory pressures: define hypoxia and its causes.

a2- Explain and outline the gastrointestinal system. Discuss basic of its control and explain the mechanisms of secretion and mobility by various parts of the system

a3- Explain the various components of renal system and its functions. Outline its role in acid–base balance.

a4- Describe mechanism of hormone action function and disorders of thyroid, suprarenal gland, pituitary, pancreas and calcium homeostasis.

a5- Outline sensory and motion parts of central nervous system and master in depth pain sensation.

a6- Discuss homeostasis and point out its importance for body functions.

a7- Label diagrams related to functions.

b) Intellectual Skills:

By the end of this course the student should be able to:

b1- Differentiate between physiological and pathological performance of different body systems.

b2-Explain the basic physiological measurements that can be used to test different body systems.

b3- Solve basic clinical problems related to topics taught and learned.

c) Professional and Practical Skills by the end of the course every student will be able to:

c1- Measure blood pressure and monitor basic vital signs.

c2- Perform basic examination of the nervous system.

c3- Comment on a normal ECG tracing.

d)- General and transferable skills

By the end of this course the student should be able to:

d1- Identify the ethical issues involved in scientific and medical work.

d2- Apply the skills required for team work.

d3- Use effective communication skills to present a topic.

d4- Identify the essential clinical issues in scientific research.

d5- Work independently or in groups to research and prepare as scientific topic.

3. Course Contents:

week	Topic		
	content	Lecture	practical
1	Pulmonary ventilation	2 hour	2 hour
2	Gas transport	2 hour	2 hour
3	Regulation of respiration and hypoxia	2 hour	2 hour
4	Cardiac properties	2 hour	2 hour
5	Cardiac output	2 hour	First midterm exam
6	Arterial blood pressure and its regulation-heart rate	2 hour	2 hour
7	GIT Physiology, salivary secretion and swallowing	2 hour	2 hour
8	Gastric and pancreatic function	2 hour	Class work
9	Liver and gall bladder	2 hour	2 hour
10	Endocrine system mechanism of hormone action-pituitary gland and their hyper & hypo function	2 hour	Second midterm exam
11	Calcium homeostasis and supra renal cortex and their hypo & hyper secretion effects	2 hour	2 hour

12	Thyroid hormone, functions and its hyper& hypo secretion effects	2 hour	2 hour
13	Center nervous system-somatic sensation	2 hour	2 hour
14	Pain sensations and headache	2 hour	2 hour

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Practical training
- 4-3. Over head projector
- 4-4. Slide projector
- 4-5. Data show and power point presentation
- 4-6. Library

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding.
- 5-2. Practical exam to assess practical and intellectual skills
- 5-3. Oral exam to assess knowledge , understanding., intellectual and general skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Review of medical physiology, twenty-sixth edition, William F. Ganong 2016
- 6-2. Guyton and Hall Text book of medical physiology, thirteen edition 2016

7. Facilities Required for Teaching and Learning

Lecture halls:

- On the first floor of the faculty of medicine
- Black board and white board and overhead projectors are available.
- Data show is available with previous arrangements.

Small group classes:

- Two teaching rooms and practical labs in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University
- White board and overhead projectors are available.
- Data show is available with previous arrangements.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√							
	a4	√							
	a5	√							
	a6	√							
	a7	√							
b	b1		√	√					
	b2		√						
	b3		√						
c	c1				√				
	c2				√				
	c3			√	√				
d	d1				√				
	d2		√						
	d3		√						
	d4			√					
	d5		√						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√					
	a2	√	√	√					
	a3	√		√					
	a4	√		√					
	a5	√							
	a6	√							
	a7	√							
b	b1		√						
	b2		√						
	b3		√						
c	c1			√					
	c2	√							
	c3		√						
d	d1							√	
	d2							√	
	d3							√	
	d4							√	
	d5							√	

Head of department: Prof. Dr. Nagat Younan

Date: / /

**Future University
Faculty of Oral and Dental Medicine
Biomaterials Department**

Course Specifications Science of Dental Materials

PROS 241

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the course: Biomaterials

Academic Year /Level: Second Year / 3rd semester

A- Basic Information

Course Title	Science of Dental Materials
Code	PROS 241
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-requisite: SGS112, 122

B- Professional Information

1. Overall Aims of Course

- To present the basic properties of dental materials as they are related to clinical manipulation by the dentist.
- To bridge the gap between the knowledge obtained in the basic course in materials science, chemistry, and physics and the dental operatory.
- To analyze the benefits and limitations of dental materials.
- To make rational decisions on the selection of dental materials and use in a clinical practice.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of this course, every student should be able to:

- a.1. Identify the change of state, the interatomic bonds and the crystalline and non crystalline structure.
- a.2. Describe the different physical properties.
- a.3. Recognize the different mechanical properties.
- a.4. Identify the different testing methodology for the different properties.
- a.5. Discuss the biocompatibility of dental materials.
- a.6. Define adhesion and cohesion.
- a.7. Explain the factors affecting adhesion and cohesion.
- a.8. Explain enamel and dentin bonding mechanisms.

- a.9. Classify the different types of polymers and their structure.
- a.10. Explain the polymerization mechanisms.
- a.11. Define copolymerization, cross linking and plasticizers.
- a.12. Demonstrate the physical properties of polymers.
- a.13. List the applications of polymers in dentistry.
- a.14. Describe metals and alloys.
- a.15. Explain solidification, and microstructure of metals.
- a.16. Identify the microstructure and properties of wrought metals.
- a.17. Define coring and homogenization.
- a.18. State the different methods of altering mechanical properties of alloys
- a.19. List the different solid state reactions occurring in alloys.
- a.20. Define tarnish and corrosion.
- a.21. State the different types of tarnish and corrosion.
- a.22. Explain the electrochemical corrosion and its types.
- a.23. Discuss protection against corrosion

b) Intellectual Skills:

By the end of this course, every student should be able to:

- b.1. Differentiate between different types of bonds.
- b.2. Relate between microstructure and different properties of dental materials.
- b.3. Distinguish between different thermal properties of the materials.
- b.4. Analyze the effect of proper selection and handling of materials on their optical properties.
- b.5. Differentiate between different mechanical properties.
- b.6. Sketch stress – strain curve for different mechanical properties of dental materials.
- b.7. Analyze the curves for viscoelastic materials.
- b.8. Predict the properties of materials suitable for construction of long span bridge, removable dentures, anterior or posterior filling materials, orthodontic wires or endodontic files.
- b.9. Experiment tensile strength of brittle materials, fatigue, flexural strength and impact strength of different materials.
- b.10. Predict the properties of adhesives to achieve proper bonding.
- b.11. Differentiate between bonding to enamel and to dentin.
- b.12. Compare between different types of polymers.
- b.13. Analyze the effect of polymerization reaction, molecular weight, cross linking, copolymerization, plasticizers, fillers, temperature on polymers' properties.
- b.14. Show solidification, and microstructure of metals.
- b.15. Distinguish between cast and wrought metals.
- b.16. Relate between microstructure of metals and mechanical properties.
- b.17. Classify different types of alloys.
- b.18. Compare eutectic to solid solution alloys.
- b.19. Analyze coring and homogenization.
- b.20. Choose the solid state reaction suitable for adjusting different metallic appliances.
- b.21. Differentiate between different mechanisms of corrosion.
- b.22. Explain different instructions for operators and patients to combat corrosion in the oral cavity.

c) Professional and Practical Skills:

By the end of this course, every student should be able to:

- c.1. Discriminate the use of different materials consistent with their physical, mechanical, biological, and chemical properties.

c.2. Select the testing machines suitable for different tests.

d) General and transferable skills

By the end of this course, every student should be able to:

- d.1. Integrate effectively with colleagues, staff members and helping personnel.
- d.2. Demonstrate appropriate professional attitude and behavior in different situations.

3. Course Contents:

- 1- Structure of matter.
- 2- Physical properties
- 3- Adhesion
- 4- Mechanical properties
- 5- Polymers
- 6- Metallurgy
- 7- Corrosion

1) Topics and Tentative Schedule:

Weeks	Topics	
	Lecture	Lab
1 st week	Introduction	Introduction
2 nd week	Structure of Matter	Structure of Matter
3 rd week	Mechanical properties.	Mechanical Properties
4 th week	Mechanical Properties.	Mechanical Properties.
5 th week	Mechanical Properties	Mechanical Properties
6 th	1 ST Midterm	Physical Properties
7 th	Physical Properties	Physical Properties
8 th	Adhesion	Adhesion
9 th	Polymers	Polymers
10 th	2 nd midterm Metallurgy	Metallurgy
11 th	Metallurgy	Metallurgy
12 th	Metallurgy	Metallurgy

13 th	Tarnish and Corrosion	Tarnish and Corrosion
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4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Practical and small group sessions.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and understanding.
- 5-3. Practical examination to assess practical skills
- 5-4. Group work to assess practical skills
- 5-5. Assignment to assess practical skills

Assessment Schedule

- Assessment 1: first midterm (written/6th week)
- Assessment 2: second midterm (written/10th week)
- Assessment 3: practical exam in 14th week
- Assessment 4: Final written & oral exam in 15th week

Weighting of Assessments

Mid-term Examination	30 %
Final written Examination	25%
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20%</u>
Total	100%

6. List of References

- 6-1.Course Notes :
 - Hand out : available for students from the department
- 6-2.Recommended (Text Books)
 - Sakguchi RL, power JM; Craig's Restorative Dental materials. 13th edition, 2012, Elsevier.
 - Anusavice KJ, shen C, Rawls HR; Phillips' Science of Dental materials. 12th edition, 2013, Elsevier.
- 6-3.Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

Lecture Halls:

- White boards are available.
- Data show is available.

Small group sessions:

One large teaching room.

- White boards.
- Data show is available
- The different dental materials are supplied for demonstration library.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7
a	a1	√	√				√	
	a2	√	√				√	
	a3	√	√				√	
	a4	√	√				√	
	a5	√	√				√	
	a6	√	√				√	
	a7	√	√				√	
	a8	√	√				√	
	a9	√	√				√	
	a10	√	√				√	
	a11	√	√				√	
	a12	√	√				√	
	a13	√	√				√	
	a14	√	√				√	
	a15	√	√				√	
	a16	√	√				√	
	a17	√	√				√	
	a18	√	√				√	
	a19	√	√				√	
	a20	√	√				√	
	a21	√	√				√	
	a22	√	√				√	
	a23	√	√				√	
b	b1	√	√					
	b2	√	√					
	b3	√	√					
	b4	√	√					
	b5	√	√					
	b6	√	√					
	b7	√	√					
	b8	√	√					
	b9	√	√					
b10	√	√						
b11	√	√						

	b12	√	√					
	b13	√	√					
	b14	√	√					
	b15	√	√					
	b16	√	√					
	b17	√	√					
	b18	√	√					
	b19	√	√					
	b20	√	√					
	b21	√	√					
	b22	√	√					
c	c1	√	√					√
	c2	√	√					√
d	d1		√		√			
	d2		√		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Research

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7
a	a1	√	√			√	√	√
	a2	√	√			√	√	√
	a3	√	√			√	√	√
	a4	√	√			√	√	√
	a5	√	√			√	√	√
	a6	√	√			√	√	√
	a7	√	√			√	√	√
	a8	√	√			√	√	√
	a9	√	√			√	√	√
	a10	√	√			√	√	√
	a11	√	√			√	√	√
	a12	√	√			√	√	√
	a13	√	√			√	√	√
	a14	√	√			√	√	√
	a15	√	√			√	√	√
	a16	√	√			√	√	√
	a17	√	√			√	√	√
	a18	√	√			√	√	√
	a19	√	√			√	√	√
	a20	√	√			√	√	√
	a21	√	√			√	√	√
	a22	√	√			√	√	√
	a23	√	√			√	√	√
b	b1		√	√			√	

	b2		√	√			√	
	b3		√	√			√	
	b4		√	√			√	
	b5		√	√			√	
	b6		√	√			√	
	b7		√	√			√	
	b8		√	√			√	
	b9		√	√			√	
	b10		√	√			√	
	b11		√	√			√	
	b12		√	√			√	
	b13		√	√			√	
	b14		√	√			√	
	b15		√	√			√	
	b16		√	√			√	
	b17		√	√			√	
	b18		√	√			√	
	b19		√	√			√	
	b20		√	√			√	
	b21		√	√			√	
	b22		√	√			√	
c	c1			√				
	c2			√				
d	d1			√				
	d2			√				

Course Coordinator: Dr. Mostafa Abdellatif

Head of Department: Prof / Taheya Ahmed Moussa

Date: 14/11/2017

**Future University
Faculty of Oral and Dental Medicine
Biomaterials Department**

**Course Specifications for
Science of Dental Materials
PROS 242**

Course Specifications

Program (s) on which the course is given Bachelor of Dental Medicine and Surgery

Department offering the course: Biomaterials

Academic Year /Level: Second Year / 4th semester

A- Basic Information

Course Title	Science of Dental Material
Code	PROS 242
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-requisite: PROS241

B- Professional Information

1. Overall Aims of Course

- To present the ideal requirements of dental materials as they are related to clinical manipulation by the dentist.
- To analyze the benefits and limitations of the present dental materials.
- To bridge the gap between the knowledge obtained in the basic course of materials science and the dental operatory.
- To make rational decisions on the selection of dental materials and their use in a clinical practice.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of the course, the student should be able to:

- a1- List the requirements, components and types of investment materials.
- a2- Identify the requirements, classifications, and general characteristics of impression materials.
- a3- Explain casting procedures and the possible defects.
- a4- Identify the different types of dental casting alloys and their properties, methods of casting and uses.
- a5- Identify the different types of wrought base metal alloys and their properties.
- a6- Express metal joining terminology.
- a7- Describe soldering and welding procedures.

- a8- Explain the microstructure, properties and technical considerations of dental amalgam.
- a9- Identify the types, properties and processing techniques of denture base resins.
- a10- List the different resilient liners and tissue conditioners for dentures.
- a11- Identify the different types of direct esthetic restorative materials, their requirements, compositions, properties and clinical applications.
- a12- Identify the different classes of ceramics, their compositions and method of strengthening.
- a13- Discuss dental cements, their classification, uses and properties.
- a14- Discuss the newly introduced materials and describe a criteria for their selection.

b) Intellectual Skills:

By the end of the course, the student should be able to:

- b1- Predict the ideal requirements of different materials used in dentistry that are related at most to their specific use.
- b2- Categorize different materials used in dentistry.
- b3- Relate the effect of materials' composition to their properties.
- b4- Predict the best use of materials according to their properties.
- b5- Analyze the need of materials to modifications.
- b6- Differentiate between chemistry of setting, basic principles and technical considerations of gypsum / products list the different die materials used in dentistry.
- b7- Differentiate between different types of dental casting alloys and their properties, methods of casting and uses.

c) Professional and Practical Skills:

By the end of the course, the student should be able to:

- c1- Identify the different dental materials and their mode of supply.
- c2- Properly manipulate the different dental materials.
- c3- Select the appropriate material suitable for each clinical situation.
- c4- Point out the different prosthesis.

d) General and transferable skills

By the end of the course, the student should be able to:

- d1- - Use information technology effectively in presenting the acquired information.
- d.2- Write report about certain topic by integration the information acquired during the course.

3)- Course Contents:

- 1- Model and Die Materials
- 2- Investment Materials
- 3- Casting technology
- 4- Dental Casting Alloys
- 5- Impression Materials
- 6- Dental Cements
- 7- Direct Esthetic Restorative Materials
- 8- None Metallic Denture Base

- 9- Dental Ceramics
- 10- Dental Amalgam
- 11- Wrought Wire Alloys
- 12- Joining of metals and alloys

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Practical and small group sessions.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and understanding.
- 5-3. Practical examination to assess practical skills
- 5-4. Group work to assess general transferable skills.
- 5-5. Assignment to assess knowledge and understanding.
- 5-6. Structured feed back to assess practical skills
- 5-7. Quizzes.
- 5-8. Case study.

Assessment Schedule

- Assessment 1: First mid term (written/5th week)
- Assessment 2: Second mid term (written/10th week)
- Assessment 3: Practical exam in 14th week
- Assessment 4: Final written & oral exam in 15th week

Weighting of Assessments

Mid-term Examination	30 %
Final term Examination	25%
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20%</u>
Total	100%

6. List of References

- 6-1. Course Notes :
Hand out : available for students from the department
- 6-2 Recommended (Text Books)
 - Sakguchi RL, power JM; Craig's Restorative Dental materials. 13th edition, 2012, Elsevier.
 - Anusavice KJ, shen C, Rawls HR; Phillips' Science of Dental materials. 12th edition, 2013, Elsevier.
- 6-3. Web Sites,etc

7. Facilities Required for Teaching and Learning

Lecture Halls :

- White boards are available.
- Data show is available.

Small group sessions :

- White boards.

- Data show is available
- The different dental materials are supplied for demonstration library.

8. Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-6	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6
a	a1	√	√			√	
	a2	√	√			√	
	a3	√	√			√	
	a4	√	√			√	
	a5	√	√			√	
	a6	√	√			√	
	a7	√	√			√	
	a8	√	√			√	
	a9	√	√			√	
	a10	√	√			√	
	a11	√	√			√	
	a12	√	√			√	
	a13	√	√			√	
	a14	√	√			√	
b	b1		√	√			
	b2		√	√			
	b3		√	√			
	b4		√	√			
	b5		√	√			
	b6		√	√			
	b7		√	√			
c	c1	√	√	√			√
	c2	√	√	√			√
	c3	√	√	√			√
	c4	√	√	√		√	
d	d1				√		√
	d2				√		√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Assignments
5-6	Presentations/Seminars
5-7	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7
a	a1	√	√		√			√
	a2	√	√		√			√
	a3	√	√		√			√
	a4	√	√		√			√
	a5	√	√		√			√
	a6	√	√		√			√
	a7	√	√		√			√
	a8	√	√		√			√
	a9	√	√		√			√
	a10	√	√		√			√
	a11	√	√		√			√
	a12	√	√		√			√
	a13	√	√		√			√
	a14	√	√		√			√
b	b 1			√		√		
	b 2			√		√		
	b 3			√		√		
	b 4			√		√		
	b 5			√		√		
	b 6			√		√		
	b 7			√		√		
c	c1			√				
	c2			√				
	c3			√				
	c4			√				
d	d1						√	
	d2						√	√

Course Coordinator: Dr / Sherine Ahmed Hashem

Head of Department: Prof / Taheya Ahmed Moussa

Date: 31 / 10 / 2017

Course Specifications for Oral Histology

Course Specifications

Program (s) on which the course is given Bachelor of Dental Medicine and Surgery
Department offering the course Oral Histology, Embryology & physiology
Academic Year / Level: Second Year / 3rd semester

A- Basic Information

Course Title	Oral Histology
Code	HPT221
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-Request: HPT112

B- Professional Information

1. Overall Aims of Course

- To keep pace with recent advances in oral biology.
- To provide an expanded knowledge about histology, embryology and physiology of oral and dental tissues.
- To serve as a basis for understanding the clinical courses such as oral pathology, oral surgery and oral medicine etc....
- To enable the development and application of appropriate professional attitude as well as communication and practical skills of the students.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course every student will be able to

- a1- Define the different dental and oral structures..
- a2- Describe embryology of oral and para oral tissues.
- a3- Describe the structure and the function of different dental and oral tissues.
- a4- Describe the histological age changes of dental and oral tissues.

b) Intellectual Skills:

By the end of the course every student will be able to

- b1- Differentiate between the different oral and para oral tissues..
- b2- Distinguish any abnormalities that might affect the normal oral tissues.
- b3- Differentiate between different hard dental and soft oral tissues
- b4- Explain the clinical significance associated with certain dental and oral structures.

c) Professional and Practical Skills:

By the end of the course every student will be able to

c1- Identify the different oral tissues through power point data show.

c2- Draw the histological structure of dental and oral tissues.

c3- Identify the technical steps for preparation of tooth ground and decalcified microscopic sections as well as the main histological and histochemical stains..

c4- Draw both hard and soft oral tissues.

d) General and transferable Skills:

By the end of the course every student will be able to

d1- Learn to communicate effectively with surroundings.

d2- Develop appropriate professional attitude.

3. Course Contents:

Topic	No. of hours	Lectures	Practical
1. Tooth development	15	7	8
2. Enamel	12	6	6
3. Dentin	11	5	6
4. Cementum	8	4	4
5. Pulp	8	4	4
6. Shedding	4	2	2
7. Eruption	6	4	2

Course Contents:

Weeks	Content	Lecture	Content	Lab
1 st week	Initiation of dental lamina, Bud & cap	2h	Bud stage (drawing and data show)	2h
2 nd week	Bell & appositional stages	2h	Cap stage (drawing and data show)	2h
3 rd week	Root development and clinical considerations.	2h	Bell stage (drawing & data show)	2h
4 th week	Enamel structure Physical properties Chemical properties Enamel rods Incremental lines Dentino-enamel junction Enamel lamellae Enamel spindle and tuft Surface structures Clinical aspects	2h	Appositional stage (drawing & data show)	2h

5th week	Amelogenesis Enamel matrix formation Maturation of enamel Life history of ameloblasts Age changes of enamel	2h	Root development (drawing and data show)	2h
6th week	Dentinogenesis Life history of odontoblasts Matrix formation and mineralization	2h	Drawing Enamel structure (longitudinal and transverse sections)	2h
7th week	Dentin structure Physical properties Chemical properties Structure of dentinal tubules Incremental lines of dentin Interglobular dentin Tome's granular layer Types of dentin Age changes of dentin	2h	Data show Enamel structure	2h
8th week	Pulp Morphology Mechanism of accessory canals formation Zones of the pulp Pulp structure Functions of the pulp Age changes of the pulp Clinical considerations	2h	Drawing Dentin structure (longitudinal and transverse sections)	2h
9th week	Cementum Physical properties Chemical properties Structure of cellular and acellular cementum Cement-enamel junction Cement-dentinal junction Types of cementum Functions of cementum Cementogenesis Age changes of cementum	2h	Data show Dentin structure	2h
10th week	Eruption Types of eruption Eruption of deciduous teeth Pre-eruptive phase, eruptive phase and post eruptive phase (in each phase; pattern, types of movements and histological changes) Eruption of permanent teeth	2h	Pulp(drawing and data show)	2h

	Pre-eruptive phase, eruptive phase and post eruptive phase (in each phase; pattern, types of movements and histological changes)			
11th week	Theories of tooth eruption Root formation theory Bone remodeling theory Vascular pressure theory Dental follicle theory Periodontal ligament traction theory Molecular determinants of tooth eruption	2h	Cementum(drawing and data show)	2h
12th week	Shedding Definition Pattern of shedding Factors determining the pattern and rate of deciduous teeth shedding Histology of shedding Clinical considerations	2h	Data show Eruption& Shedding	2h

4. Teaching and Learning Methods

4-1. Lectures using power point.

4-2. Lectures using videos.

4-3. Lectures with discussions

4-4. Practical and small group sessions:

a. Each practical session's preceded by slide tutorial demonstration, description and drawing of oral tissues and class discussions.

b. Demonstration for tissue identification using power point data show.

4-3. Students draw in their practical books under supervision of the responsible staff members and helping personnel in small subgroups.

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge and understanding.

5-3. Practical examination to assess practical skills & intellectual skills & general skills

5-4. Practical book to assess practical skills

Weighting of Assessments

Mid-term Examination	30 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Semester Work	20 %

Total

100%

6. List of References

6-1. Course Notes

- All lectures are available for students as presentations on the moodle.
- Textbooks : Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy 2th Edition ,2006
- Handouts for certain topics.

6-2. Essential Books (Text Books)

Recommended Books: Dental embryology, Histology and Anatomy; Margaret J. Fehrenbach and Mary Bath-Balogh as well as Tencate's Oral Histology ; Antonio Nanci

7. Facilities Required for Teaching and Learning

- Data show with camera
 - Models for Embryology
 - Videos and CDs containing topics and presentations in oral histology, Embryology and physiology
 - Lecture Hall: on the 1st and 2nd floors, Faculty of Oral & Dental Medicine, Future University.
- White writing boards and data show is available with prior arrangement.
- Small Group Classes: three practical laboratories in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University. White writing boards and data show is available with prior arrangement.
 - Library :
 - Practical facilities :
 - Data show
 - Models
 - White boards
 - Diagrams illustrating the histological structures of oral and para-oral tissues

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√		√		
	a2	√	√	√	√		√		
	a3	√	√				√		
	a4	√	√	√	√		√		
b	b1	√	√	√	√		√		
	b2	√	√	√	√		√		
	b3			√	√				
	b4	√	√				√		
c	c1	√	√	√	√		√		
	c2	√	√	√	√		√		
	c3			√	√				
	c4			√	√				
d	d1		√	√	√				
	d2		√	√	√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√		
	a2	√	√	√		√	√		
	a3	√	√			√	√		
	a4	√	√	√		√	√		
	a5	√	√	√		√	√		
b	b1	√	√	√		√	√		
	b2	√	√	√		√	√		
	b3			√		√	√	√	
	b4			√		√	√	√	
c	c1	√	√	√		√	√		
	c2			√		√	√		
	c3			√					
	c4			√					
d	d1		√					√	
	d2		√					√	

Course Coordinator: Prof Dr. Rehab Ali Abdel Moneim
 Head of Department: Prof Dr. Rehab Ali Abdel Moneim
 Date: 20 / 11 /2017

Course Specifications for Oral Histology

Course Specifications

Program (s) on which the course is given Bachelor of Dental Medicine and Surgery
Department offering the course Oral Histology, Embryology & physiology
Academic Year / Level: Second Year /4th semester

A- Basic Information

Course Title	Oral Histology
Code	HPT222
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-Request: HPT221

B- Professional Information

1. Overall Aims of Course

- To keep pace with recent advances in oral biology.
- To provide an expanded knowledge about histology, embryology and physiology of oral and dental tissues.
- To serve as a basis for understanding the clinical courses such as oral pathology, oral surgery and oral medicine etc....
- To enable the development and application of appropriate professional attitude as well as communication and practical skills of the students.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course every student will be able to

- a1- Define the different oral and para oral structures..
- a2- Describe embryology of oral and para oral tissues.
- a3- Describe the structure and the function of different oral and para oral tissues.
- a4- Differentiate between different hard dental and soft oral tissues

b) Intellectual Skills:

- b1- Differentiate between the different oral and para oral tissues..
- b2- Distinguish any abnormalities that might affect the normal oral and para oral tissues.
- b3- Explain the clinical significance associated with certain oral and para oral structures.
- b4- Describe the histological age changes of oral and para oral tissues.

c) Professional and Practical Skills:

- c1- Use the light microscope properly.
- c2- Identify the different oral tissues using the light microscope.
- c3- Draw the histological structure of oral and para oral tissues.
- c4- Understand the technical steps for preparation of tooth ground and decalcified microscopic sections as well as the main histological and histochemical stains.

d) General and transferable Skills:

- d1- Communicate effectively with colleagues , staff members and helping personnel.
- d2- Demonstrate appropriate professional attitude and behavior in different situations.

3. Course Contents:

Topic	No. of hours	Lectures	Practical
1.Embryology	16	8	8
2.Periodontal ligament	8	4	4
3.Bone and alveolar process	9	5	4
4.Oral mucosa	16	8	8
5.Salivary glands	15	7	8
6.Maxillary sinus	4	2	2
7.Temporomandibular joint	4	2	2

Course Contents:

Weeks	Content	Lecture	Content	Lab
1 st week	Periodontal ligament Periodontium Development Histological structure Functions Age changes	2h	Periodontal ligament (drawing and data show)	2h
2 nd week	Bone and Alveolar process Bone components Types of bone Histology of bone types Alveolar process (anatomy, histology and radiographically) Bone remodeling Age changes of bone	2h	Alveolar process (drawing & data show)	2h
3 rd week	Salivary glands Definition Classification Histological structure of acini	2h	Drawing Salivary glands	2h
4 th week	Salivary glands Histological structure of the duct system	2h	Data show Salivary glands	2h

	Connective tissue Types of human salivary glands Age changes of salivary glands Functions of saliva			
5 th week	Oral mucosa Definition Function Classification Histological structure	2h	Keratinized and non- Keratinized mucosa(drawing and data show)	2h
6 th week	Oral mucosa Macro and micro-anatomy of the gingiva Macro and micro-anatomy of the hard palate Lining mucosa structure (soft palate, lip cheek, inferior surface of the tongue, alveolar mucosa, vestibular fornix and floor of the mouth) Specialized mucosa	2h	Drawing Macroanatomy and microanatomy of the gingiva	2h
7 th week	Dento-gingival junction Histology of dento-gingival junction Stages of passive eruption	2h	Drawing Macroanatomy and microanatomy of the hard palate	2h
8 th week	Embryology Phases of intra-uterine life Branchial arches development Structure of branchial arches Branchial clefts and pharyngeal pouches	2h	Drawing Tongue	2h
9 th week	Embryology Face development Palate development Tongue development	2h	Data show oral mucosa	2h
10 th week	Mandible and maxilla development and growth	2h	Embryology (data show)	2h
11 th week	Maxillary sinus Definition Development Anatomy The most related teeth Histology Functions Clinical aspects	2h	Maxillary sinus (data show)	2h
12 th week	TMJ Components Histology Movements of the joint	2h	TMJ(data show)	2h

4. Teaching and Learning Methods

4-1. Lectures using power point.

4-2. Lectures using videos.

4-3. Lectures with discussions.

4-2. Practical and Small group sessions:

a. Each practical session's preceded by slide tutorial demonstration, description and drawing of oral tissues and class discussions.

b. Demonstration for tissue identification using power point data show.

4-3. Students draw in their practical books under supervision of the responsible staff members and helping personnel in small subgroups.

5. Student Assessment Methods

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5-3. Practical examination to assess practical skills & intellectual skills & general skills

5-4. Practical book to assess practical skills

Weighting of Assessments

Mid-term Examination	30 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Semester Work	20 %
Total	100%

6. List of References

6-1. Course Notes

- All lectures are available for students as presentations on the moodle.
- Textbooks : Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy 2th Edition ,2006
- Handouts for certain topics

6-2. Essential Books (Text Books)

Recommended Books: Dental embryology, Histology and Anatomy; Margaret J. Fehrenbach and Mary Bath-Balogh as well as Tencate's Oral Histology ; Antonio Nanci

7. Facilities Required for Teaching and Learning

C- Data show with camera

D- Models for Embryology

E- Videos and CDs containing topics and presentations in oral histology, Embryology and physiology

- Lecture Hall: on the 1st and 2nd floors, Faculty of Oral & Dental Medicine, Future University.

White writing boards and data show is available with prior arrangement.

- Small Group Classes: three practical laboratories in Oral Biology Department, Faculty of Oral & Dental Medicine, Future University. White writing boards and data show is available with prior arrangement.
 - Library :
 - Practical facilities :
 - Data show
 - Models
 - White boards
 - Diagrams illustrating the histological structures of oral and para-oral tissues.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√		√		
	a2	√	√	√	√		√		
	a3	√	√				√		
	a4	√	√	√	√		√		
b	b1	√	√	√	√		√		
	b2	√	√	√	√		√		
	b3			√	√				
	b4	√	√				√		
c	c1	√	√	√	√		√		
	c2	√	√	√	√		√		
	c3			√	√				
	c4			√	√				
d	d1		√	√	√				
	d2		√	√	√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√		
	a2	√	√	√		√	√		
	a3	√	√			√	√		
	a4	√	√	√		√	√		
	a5	√	√	√		√	√		
b	b1	√	√	√		√	√		
	b2	√	√	√		√	√		
c	c1	√	√	√		√	√		
	c2			√		√	√		
	c3			√					
	c4			√					
d	d1		√					√	
	d2		√					√	

Course Coordinator: Prof Dr. Rehab Ali Abdel Moneim

Head of Department: Prof Dr. Rehab Ali Abdel Moneim

Date: 20 /11 /2017

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Preclinical restorative Dentistry
CONS 311**

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the program: **Faculty of Oral and Dental Medicine**

Department offering the course: Department of Operative Dentistry

Academic Year /Level: 3rd year / 5th semester

A- Basic Information

Course Title	of Operative Dentistry
Code	CONS 311
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-Request: PROS242

B- Professional Information

1. Overall Aims of Course

- To educate the students about the fundamental principles of cavity preparation.
- To teach the students the classification and types of lesions affecting the tooth structure.
- To enable the students to recognize and use the different cutting instruments.

2. Intended Learning Outcomes of Course (ILOs)

By the end of the course the student should be able to:

a) Knowledge and understanding:

- a1- Define the different principles of cavity preparation
- a2- Recognize the different cutting instruments
- a3- Identify the different types of non caries lesions.

b) Intellectual Skills:

By the end of the course:

- b1- Recognize the health and safety regulations within the laboratory environment.
- b2-analyze different steps of cavity preparation and proper instrument usage.
- b3-summarize carious and non caries lesions.

c) Professional and Practical Skills:

By the end of the course:

- c1- Apply the general principles of cavity preparation for different classes.
- c2- Use Properly the appropriate instrument.

d) General and transferable skills

- d1- Recognize of the value and role of life long learning, self assessment, and critical thinking in maintaining competency.
- d2- assess ones weakness and strengths.

- d3- respect ethical behavior and professionalism:
 d4- respect integrity, honesty and trustworthiness.

3. Course Contents:

Ser.	TOPIC
1	Definitions, Scope and Objectives
2	Carious and non-carious Lesions
3	Cavity classification
4	General Principles of Cavity Preparations
5	Instruments and Instrumentations

<i>Date</i>	<i>Subject</i>
1 st . Week.	Introduction to operative dentistry.
2 nd . week .	Carious and non-carious lesion.
3 rd . week .	Cavity &classification& nomenclature.
4 th . week .	General principles of cavity preparation.
5 th . week .	General principles of cavity preparation.
6 th . week .	General principles of cavity preparation.
7 th . week .	General principles of cavity preparation.
8 th . week .	General principles of cavity preparation.
	<i>MID TERM EXAM.</i>
9 th . week .	Instruments.
10 th . week .	Instruments
11 th . week .	Instruments.
12 th . week .	Instruments.

4. Teaching and Learning Methods

1. Methods used:

1. Lectures
2. Laboratory demonstration.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.

- 5-2. Laboratory examination to assess clinical skills, intellectual and general skills
- 5-3. log book to assess clinical skills and practical requirement.
- 5-4. oral examination to assess knowledge & understanding.

Assessment Schedule

- Assessment 1: Mid Term Exam
- Assessment 2: practical Mid Term Exam
- Assessment 3: Quizzes and assignments
- Assessment 5: Final practical exam

Assessment 6: Final Written & Oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Class work	20 %
Oral Examination	10 %
Final Practical Examination	15 %
<u>Final Written Examination</u>	<u>25 %</u>
 Total	 100%

6. List of References:

- 6-1. Text book: contemporary approach in operative dentistry (sumitt) third edition 2006
- 6-2. Course notes

7. Facilities Required for Teaching and Learning:

- 7-1 lecture hall.
- 7-2 white board
- 7-3 slide projectors
- 7-4 laboratories for practical practice.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3
A	a1	√		
	a2	√		
	a3	√		
B	b1		√	
	b2	√	√	
	b3	√		
C	c1		√	
	c2		√	

D	d1		√	√
	d2		√	
	d3		√	
	d4		√	

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Log book

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√			√	
	a2	√		√	√	√
	a3	√	√		√	
b	b1			√		
	b2	√		√	√	√
	b3	√	√		√	
c	c1			√		
	c2			√		√
d	d1			√		
	d2		√	√	√	
	d3	√	√	√		
	d4	√	√	√	√	
	d5	√				

Course Coordinator:

Dr sara hany

Head of Department:

Prof. Dr. Essam Abdel Hafez

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

Course Specifications for Preclinical Operative Dentistry CONS 312

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery
Department offering the course: Department of Operative Dentistry
Academic Year /Level: 3rd year / 6th semester

A- Basic Information

Course Title	of Operative Dentistry
Code	CONS 322
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-Request: PROS242

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of proper use and manipulation of the various restorative dental materials.
- To teach the students the new approach of conservative cavity designs.
- To enable the students to master the indirect restorative techniques.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of the course:

- a1- Recognize the different properties of the metallic and non-metallic restorative materials.
- a2- Define the indications and contraindications of the different restorative materials.
- a3- Identify the different manipulation of various types of restorations

b) Intellectual Skills:

By the end of the course:

- b1-Select the proper type of restorative material for different situation.

c) Professional and Practical Skills:

By the end of the course:

- c1- Apply the general principles of restoration of different classes.
- c2- Perform satisfactorily the different technical steps for restorative material manipulation.

d) General and transferable skills

By the end of the course:

- d1- Life – Long Learning :

Recognition of the value and role of life long learning, self assessment, and critical thinking in maintaining competency.

- d2-Evaluate personal progress and be able to assess ones weakness and strengths.

d3- Ethical behavior and professionalism .

3. Course Contents:

Ser.	TOPIC
1	Amalgam restoration
2	Resin Composites restorations
3	Glass Ionomer restorations
4	Indirect metallic and non-metallic restorations
5	Tooth form and Occlusion
6	Insulating Bases and Liners

Weeks	lectures	1 st lab	2 nd lab
1	Amalgam 1
2	Amalgam 2	OB LOWER 6 cavity prep, for amalgam resto.	Demo. MO 6 cavity prep, for amalgam Resto
3	Amalgam 3	MO lower 5 cavity prep	MO upper 6 cavity preparation
4	Bases&liners1	Continue due	Demo. Amalgam Resto. Continue due
5	Bases&liners2	Demo. F&P Amalgam	Continue due, R1
6	Indirect restoration 1	Demo. Inlay prep.MOD lower 6	MOD upper 5, inlay prep.
7	Indirect restoration 2	Continue due	Continue due
8	Resin ccomposite 1	1st MID-Term Exams Demo B&L application	1st MID-Term Exams Demo B&L application
9	Coptic vacation		
10	Sinai day	Continue due	
11	Resin composite 2	Continue due,R2	Demo. ClassIII, IV, V on natural teeth
12	Resin composite 3	2nd MID-Term Exams Demo class I for Resin Resto	2nd MID-Term Exams Demo class I for Resin Resto
13	Glass ionomer 1	Continue due	Demo. Resin composite resto. Classes III,V
14	Glass ionomer 2	Continue due	Continue due,R3
15	Revision	Final practical collection of sheet	Final practical collection of sheet

4. Teaching and Learning Methods

Methods used:

1. Lectures
2. Laboratory sessions.

5. Student Assessment through:

- 5-1. logbook to assess clinical skills , intellectual and general skills.
- 5-2. Oral exam to assess knowledge and understanding.

Assessment Schedule

Assessment 1: Mid Term Exam

Assessment 2: practical Mid Term Exam

Assessment 4: Quizzes

Assessment 5: Final practical exam

Assessment 6: Final Written and Oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Class work	20 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %
<hr/>	
Total	100%

6. List of References:

- 6-1 Textbook: contemporary operative dentistry (sumitt).
- 6-2 course notes.

7. Facilities Required for Teaching and Learning:

- 7-1 lecture hall.
- 7-2 wide board.
- 7-3 slide projectors.
- 7-4 laboratories for practical practice.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	✓		✓	✓	✓
	a2	✓				✓
	a3	✓	✓	✓	✓	✓
b	b1	✓		✓	✓	✓
c	c1	✓	✓	✓	✓	✓
	c2	✓	✓	✓	✓	✓
d	d1	✓				✓
	d2	✓			✓	✓
	d4	✓			✓	✓
	d5	✓				✓
	d6	✓			✓	✓

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Assignments
5-6	Presentations/Seminars
5-7	Posters
5-8	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7
a	a1	✓	✓	✓	✓	✓	✓	
	a2	✓	✓	✓	✓	✓	✓	
	a3	✓	✓	✓	✓	✓	✓	
b	b1	✓		✓				
c	c1	✓	✓	✓	✓	✓	✓	
	c2	✓	✓	✓	✓	✓	✓	
d	d1	✓	✓					
	d2	✓	✓					
	d3	✓	✓					

Course Coordinator :

Prof. Dr. Essam Abdel Hafez

Head of Department :

Prof. Dr. Essam Abdel Hafez

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications for
Crowns and Bridges Technology
PROS 321

Course Specifications

Program(s) on which the course is given B.D.S
Department offering the course: Department of Fixed Prosthodontic
Academic Year /Level :3rd year / 5th semester

A- Basic Information

Course Title	of Fixed Prosthodontic
Code	PROS 321
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-Request: PROS242

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of different principles of tooth preparation to receive fixed prosthodontic restorations.
- To enable the students to recognize and use the different cutting instruments..
- To enable the students to understand the different technical laboratory steps of full metal and jacket crown preparation

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Define the different principles of tooth preparation
- a2- Classify different types of fixed prosthesis restorations.
- a3- Identify the different cutting instruments .
- a4- Recognize the different technical laboratory steps of tooth preparation of full metal and Jacket crown and various types of restorations

b) Intellectual Skills:

- b1- Recognize the health and safety regulations within the laboratory environment
- b2- Differentiate between preparation for cast metal and all- ceramic preparation.

c) Professional and Practical Skills:

- c1- Prepare properly posterior teeth for full veneer metal crown
- c2- Prepare properly posterior teeth for veneered crown
- c3- Prepare properly anterior teeth for all- ceramic crown.

d) General and transferable skills

D1. Utilize different sources for continuing professional development and life-long learning.

D2. Communicate effectively in both oral and written forms

D3. Use IT resources effectively.

3. Course Contents:

Ser.	TOPIC
1	Terminology and classification
2	Instruments
3	Principles of tooth preparation for extra coronal restorations
4	The complete metal cast crown
5	All ceramic restorations

4. Teaching and Learning Methods

1. Methods used:

1. Lectures
2. Laboratory sessions.
3. Demonstrations
4. Practical requirement

5. Student Assessment Methods

- 5-1. Written examination
- 5.2 Oral Exam
- 5-3. laboratory examination
- 5.4 assignment

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: practical Mid Term Exam
- Assessment 4: Final practical exam

Assessment 5: Final Written & Oral exam

Weighting of Assessments

1 st Mid Term Examination	15 %
2 nd Mid Term Examination	15 %
Mid Term Practical Examination	10 %
Practical Requirement	10 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %
<u>Other types of assessment</u>	<u>00 %</u>
Total	100%
Any formative only assessments	

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Laboratory sessions
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√		√				
	a2	√	√		√				
	a3	√	√		√				
	a4	√							
b	b1	√	√	√					
	b2	√	√	√					
	b3		√	√					
c	c1	√	√						
	c2	√	√		√				
	c3	√	√	√	√				
d	d1	√	√						
	d2								
	d3								

Please insert rows and columns whenever needed

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Assignments
5-5	Quizzes (continuous assessment)
5-6	Clinical Examination
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√						
	a2	√	√	√					
	a3	√	√	√					
	a4	√	√						
b	b1		√						
	b2		√						
	b3								
c	c1	√	√						
	c2	√	√	√					
	c3	√	√	√					
d	d1								
	d2								
	d3								

Please insert rows and columns whenever needed

Course Coordinator :Dr Gihan Elnaggar .

Head of Department: Prof Ashraf Hussein

Date : / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications for
Crowns and Bridges Technology
PROS 322**

Course Specifications

Program (s) on which the course is given B.D.S

Department offering the course: Department of Fixed Prosthodontic

Academic Year /Level : 3rd year / 6th semester

A- Basic Information

Course Title	of Fixed Prosthodontic
Code	PROS 322
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-Request: PROS321

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of different principles of tooth preparation to receive veneered crown restorations.
- To enable the students to understand the different technical laboratory steps (dies , wax pattern , spruing , investing , and casting procedures).

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Define the different principles of tooth preparation to receive veneered crown restorations
- a2- classify different types of dental casting alloys.
- a3- Identify the different technical laboratory steps employed in construction of cast metal restorations.

b) Intellectual Skills:

- b1- select properly different materials suitable for casting of different casting alloys.
- b2- Identify different causes of casting failure.

c) Professional and Practical Skills:

- c1- construct wax pattern for full veneer metal crown
- c2- construct wax pattern for veneered crown
- c3- construct wax pattern for all- ceramic crown

D) General and transferable skills

- D1. Recognize the value and role of lifelong learning, self assessment and critical thinking in maintaining competency
- D2. Mange time effectively
- D3. Use IT resources effectively.

3. Course Contents:

Ser.	TOPIC
1	Metal ceramic crown preparation (veneered crown preparation)
2	Working casts and dies
3	Wax patterns methods and techniques .
4	Different metal used for casting
5	Spruing
6	Investing
7	Casting

4. Teaching and Learning Methods

4. Teaching and Learning Methods

- 4.1. Lectures
- 4.2. Laboratory sessions.
- 4.3. Demonstrations
- 4.4 4. Practical requirement

5. Student Assessment Methods

- 5-1. Written examination
- 5.2 Oral Exam
- 5-3. laboratory examination
- 5.4 assignment

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: practical Mid Term Exam
- Assessment 4: Final practical exam
- Assessment 5: Final Written & Oral exam

Weighting of Assessments

1 st Mid Term Examination	15 %
2 nd Mid Term Examination	15 %
Mid Term Practical Examination	10 %
Practical Requirement	10 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %
<u>Other types of assessment</u>	<u>00 %</u>
Total	100%

Any formative only assessments

6. List of References

7. Facilities Required for Teaching and Learning

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√		√		
	a2	√		√	√		√		
	a3	√		√	√		√		
b	b1		√				√		
	b2		√				√		
	b3								
c	c1	√	√	√	√				
	c2	√		√					
	c3	√	√	√			√		
d	d1		√				√		
	d2								
	d3								

Please insert rows and columns whenever needed

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√	√		
	a2	√	√	√		√	√		
	a3	√	√	√		√	√		
b	b1						√	√	
	b2						√	√	
	b3								
c	c1	√	√	√			√		
	c2	√	√	√			√		
	c3	√	√	√		√			
d	d1						√	√	
	d2								
	d3								

Please insert rows and columns whenever needed

Course Coordinator :Dr Sherin Adal

Head of Department: Prof Ashraf Hussein

Date : / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
Removable Prosthodontics Technology
(PROS311)

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the program : **Faculty of Oral and Dental Medicine**

Department offering the course: Removable Prosthodontic

Academic Year / Level: 3rd year / 5th semester

A- Basic Information

Course Title	Preclinical Removable Prosthodontic Technology
Code	PROS311
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-request: PROS242

B- Professional Information

1. Overall Aims of Course

- This course is designed to familiarize the students with instruments, materials and laboratory procedures and techniques used for complete denture prosthodontics.
- The student will study the complete denture components and principles of complete denture design and construction.
- The laboratory and clinical procedures will be taught and their interdependence stressed.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

- a1- Describe the anatomy and physiology of the oral cavity
- a2- Define different steps for complete denture construction
- a3- Explain various mandibular movements and jaw relations and occlusion blocks.
- a4- Identify various types of impression techniques and trays.
- a5- Define retention and stability.
- a6- Define relief and posterior palatal seal.
- a7- List types of face bows and articulators.
- a8- List various types of artificial teeth.

b) Intellectual Skills:

- b1- Interpret normal and abnormal edentulous anatomy and its relationship to complete denture fabrication
- b2- Assess the typical problems that can occur during complete denture construction.

b3- Make decisions regarding common technical discrepancies and faults using appropriate problem solving skills.

c) Professional and Practical Skills:

c1- Manipulate the dental materials necessary to fabricate a complete denture.

c2- Use various instrument used in fabrication of complete dentures.

c3- Perform the laboratory steps required to fabricate a complete denture.

d)- General and transferable skills

d1-Self evaluates the professional abilities, performance and progress.

d2- Uses the information technology to improve the education through self – directed learning and research work activities.

3.Course Contents:

Topic
1. Steps of complete denture construction, anatomy and physiology
2. Impression trays and techniques
3. Relief and posterior palatal seal
4. Retention and stability
5. Occlusion blocks.
6. TMJ and mandibular movements
7. Jaw relation record
8. Face bow, Articulators.
9. Selection of artificial teeth and arrangement
10. Waxing up and processing.

2) Topics and Tentative Schedule:

Weeks	Topics		
	content	Lecture	clinical
1 st week	Introduction + Steps of complete denture construction	1 hours	4 hours weekly
2 nd week	Extra oral Landmarks	1 hours	
3 rd week	Intra oral Landmarks	1 hours	
4 th week	Impression + Trays	1 hours	
5 th week	Relief + Post dam	1 hours	
6 th week	Retention + Stability	1 hours	
7 th week	First mid term	1 hours	
8 th week	Jaw relation + occlusion	1 hours	

	blocks	
9 th week	Mandibular movements	1 hours
10 th week	Articulators + Face bow	1 hours
11 th week	second mid term	1 hours
12 th week	Tooth selection	1 hours
13 th week	Processing	1 hours

4. Teaching and Learning Methods

- 4-a. Lectures
- 4-b. Laboratory training
- 4-c. Requirements

5. Student Assessment Methods

- 5-a. written examination
- 5-b. Oral examination
- 5-c. Practical examination

Assessment Schedule

Assessment 1: 1st Mid term (written)

Assessment 2: 2nd Mid term (written)

Assessment 3: Class Assessment

Assessment 4: practical exam

Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Class Assessment</u>	<u>20 %</u>
Total	100%

Any formative only assessments

6. List of References

- 6-1. Course Notes
- 6-2. Department Notes

7. Facilities Required for Teaching and Learning

- ◆ Lecture halls
- ◆ Small group classes
- ◆ Laboratories
- ◆ Training models
- ◆ Computers , data show

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
	a4	√	√						
	a5	√	√						
	a6	√	√						
	a7	√	√						
	a8	√	√						
	a9	√	√						
b	b1	√	√	√	√				
	b2	√	√	√	√				
	b3	√	√	√	√				
c	c1			√	√				
	c2			√	√				
	c3			√	√				
d	d1			√	√				
	d2			√	√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√			
	a2	√	√			√			
	a3	√	√			√			
	a4	√	√			√			
	a5	√	√			√			
	a6	√	√			√			
	a7	√	√			√			
	a8	√	√			√			
	a9	√	√			√			
b	b1			√			√		
	b2			√			√		
	b3			√			√		
c	c1			√					
	c2			√					
	c3			√					
d	d1			√				√	
	d2			√				√	

Course Coordinator:

Head of Department:

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Removable Prosthodontics Technology
PROS 312**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine.

Department offering the course: Removable Prosthodontics

Academic Year /Level: 3rd year / 6th semester

A- Basic Information

Course Title	Preclinical Prosthodontic
Code	Pros 312
Credit Hours	3
Lecture /week	1
Practicals / week	4
Total	5

Pre-Request: PROS 312

B- Professional Information

1. Overall Aims of Course

The student will study the removable partial denture components and the principles of removable partial denture design and construction.

The student will be able to carry out the steps of wax pattern fabrication of cobalt chromium metallic framework partial dentures

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

- a1- List the objective of partial denture.
- a2- Classify partially edentulous cases.
- a3- Identify forces acting on partial dentures.
- a4- List uses of dental surveyor.
- a5- Define various components of partial dentures .
- a6- Identify different partial denture design
- a7- Describe laboratory procedure for partial dentures.

b) Intellectual Skills:

- b1-Distinguish between partial denture classes.
- b2. Formulate appropriate partial denture designs.
- b3- Describe various partial denture components
- b4- Make decisions regarding indications and contraindications of removable partial denture.

c) Professional and Practical Skills:

- c1- Demonstrate dental cast surveying .
- c2- Perform wax pattern steps required to fabricate partial dentures.

d) General and transferable skills

d1- Display appropriate professional communication skills with colleagues.

3. Course Contents:

Ser.	TOPIC
1	Introduction and objectives of removable partial denture
2.	Partial denture classification
3.	Forces acting on partial denture
4.	Denture base
5.	Occlusal rests, direct retainer, indirect retainer
6.	Mandibular and maxillary major connector
7.	Surveyor
8.	Laboratory procedure spruing, finishing, polishing and repair.

Topics and Tentative Schedule

Weeks	Topics		
	content	Lecture	clinical
1 st week	Introduction classification	1hours	3 hours weekly
2 nd week	Denture base	1hours	
3 rd week	Rest	1hours	
4 th week	Direct retainer	1hours	
5 th week	Direct retainer	1hours	
6 th week	1 ST Midterm	1hours	
7 th week	Maxillary major connector	1hours	
8 th week	Mandibular major connector	1hours	
9 th week	Indirect retainer	1hours	
10 th week	Surveyor	1hours	
11 th week	2 nd midterm	1hours	
12 th week	Revision Lab steps	1hours	

4. Teaching and Learning Methods

4-1. lectures

4-2. laboratory training .

4-3. Requirement

5. Student Assessment Methods

5-1. written exam.

5-2. Oral exam

Assessment Schedule

Assessment 1: 1st Mid term (written)

Assessment 2: 2nd Mid term (written)

Assessment 3: Semester Work

Assessment 4: practical exam

Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>

Total 100 %

Any formative only assessments

6. List of References

6-3. Recommended books

6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

1. Facilities used for teaching this course include:

2. Lecture hall

3. LAB

4. Computers, data show

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√		√	√				
	a2	√		√	√				
	a3	√		√	√				
	A4	√		√	√				
	A5	√		√	√				
	A6	√		√	√				
	A7	√		√	√				
b	b1		√	√	√				
	b2		√	√	√				
	b3		√	√	√				
	b4		√	√	√				
c	c1			√	√				
	c2			√	√				
d	d1				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
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5-4	Clinical Examination
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5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	a4	√	√	√		√			
	a5	√	√	√		√			
	a6	√	√	√		√			
b	b1		√	√					
	b2		√	√					
	b3		√	√					
	b4		√	√					
c	c1		√	√					
	c2		√	√					
	c5		√	√					
d	d1			√					

Course Coordinator:

Head of Department:

Course Specifications for Microbiology 1 SGS 391

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 3rd Year / 5th semester

A- Basic Information

Course Title	Microbiology & Immunology
Code	SGS 391
Credit Hours	2
Lecture /week	2
Practical / week	1
Total	3

B- Professional Information

1 – Overall Aims of Course

-To provide the basic knowledge about Bacterial cell structure & bacterial genetics & the different methods of gene transfer.

-To enable the students to understand the infection control measures that should be applied in clinic & different methods of sterilization & disinfection.

- To provide the basic knowledge about the immunity as well as the possible consequences of failure of immune system .

- To enable students to understand the different mechanisms of action of antimicrobial agents as well as their complications focusing on antibiotic resistance.

- To enable the students to have practical skills about the conventional & advanced methods used for diagnosis of bacterial diseases

- To provide the students with information about oral bacterial flora & the oral defense mechanisms .

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

by the end of the course the student will be able to:

a1- Compare between prokaryotes & eukaryotes.

List the different components of bacterial cell & the function of each components.

a2-Describe the different methods of gene transfer.

List the different virulence factors enabling the bacteria to establish the infection.

a3-Identify the different mode of action of antimicrobial agents ;Define the possible complications of their misuse .

a4-Define infection control;

identify its significance for dentists ;

List the different standard precaution measures .

a5-list the different organs & cells of the immune system ;identify the functions of each .

a6-Identify the different types of antigen & list the factors influencing immunogenicity;

List the different types of vaccine.

a7-Identify the different types of tumor antigens; describe the different immune mechanisms against tumor & the different ways of tumor evasion.

List the different approaches for tumor immunotherapy.

a8-Identify immunological disorders in autoimmunity & immunodeficiency.

Intellectual Skills:

by the end of the course the student will be able to:

b1-Recommend the proper antimicrobial agents in order to avoid their possible side effect & prevent emergence of drug resistance.

b2- Choose the suitable disinfectant for disinfection of clinical contact surfaces & housekeeping surfaces.

b3- Assess the suitable method of sterilization for different instruments or articles used in his clinics.

b4-choose the proper disinfectant &compare between their different types regarding advantages,disadvantages & uses .

b5- Compare between the two branches of the immune system .

b6- Compare between the cell –mediated immunity (CMI) & humoral immunity ;explain the significance of each & the steps of their activation .

b7- Explain the significance of complement & compare between the different pathways of its activation .

c- Professional and Practical Skills:

by the end of the course the student will be able to:

c1- Demonstrate the technique of Hand washing .

c2-Apply scoop technique in recapping of a syringe

c3-Demonstrate the different protective barriers.

c4- Demonstrate how to handle with the glove & the lab coat in order to protect themselves .

c5-Identify the different parts of microscope & how to adjust it for better identification of organism.

c6- Differentiate between different types of bacteria under the microscope according to their morphology ,staining character & arrangement

c7- Differentiate between the different media used for isolation of organisms causing diseases relevant to dentistry.

d- General and Transferable Skills

d1-Self confidence, communication skills.

d2-Pleasure of learning.

d3 Thinking & comprehension of subject are the best methods for learning

3- Contents :

First semester contents :

Topic :Lecture	No. of hours	Topic Practical	No. of hours
-Prokaryotes VS eukaryotes - Bacterial classification - Bacterial cell structure	2h	Infection control measures in dentistry	2h
-Bacterial genetics -Host- parasites relationship -Bacterial growth curve	2h	Physical methods of Sterilization	2h
Antimicrobial agents	2h	Microscopy & bacterial staining	2h
Disinfection	2h	Conventional bacterial identification methods	4h
Components of the immune system	2h	Immunological diagnosis of Infectious diseases	2h
Tissues & cells involved in the immune response	4h	Molecular diagnosis of Infectious diseases	2h

-Antigen and immunogenicity -Immunoprophylaxis	2h	Antibiotic susceptibility testing	2h
-Cell- mediated immunity	2h	8h Tutorials	
-Humoral immunity	2h		
Autoimmunity & immunodeficiency	2h		
Complement	2h		
Tumor immunology	2h		
Oral Defense mechanisms	2h		

Second semester contents :

Topic	No. of hours	Lecture	Tutorial/Practical
Oral microbial flora Dental plaque Biofilm formation	4h	2h	2h
Staphylococci &Methicillin resistant staphylococcus aureus	4h	2h	2h
Streptococci & Pneumococci -Oral streptococci	4h	2h	2h
Neisseria Corynebacterium Diphtheria	4h	2h	2h
Mycobacteria -Dental unit waterline contamination	4h	2h	2h
Spirochaetes	4h	2h	2h
-Anaerobic bacteria -Prion disease & dentistry	6h	4h	2h
Fungal infections Probiotics,prebiotics& psychobiotics	2h	2h	2h
Basic Virology	4h	4h	8 h Tutorial
Blood borne viruses: Hepatitis viruses & Human Immunodeficiency virus	4h	4h	
Oncogenic viruses	2h	2h	
Viruses of oral mucosa	2h	2h	
Herpes viruses	2h	2h	

4– Teaching and Learning Methods

4.1-Lectures

4.2-Lab

4.3- Tutorials (class discussion)

5- Student Assessment Methods

5.1 Written exams to assess Knowledge and understanding

5.2 Oral exams to assess Knowledge and understanding...as well as the self confidence of students

5.3 Practical exams to assess Practical ,intellectual ,general skills.

5.4 Quizzes & assignments to assess continuously the students and evaluate the level of their comprehension & understanding of subjects

Assessment Schedule :

1st semester evaluation:

Assessment 1 "1st mid term 6 thWeek "13 Nov."

Assessment 2 ... "2nd midterm 11 th week ... "18 Dec."

Assessment 3 final exam " written" 16 th Week
"22 Jan".

Assessment 4... final exam "oral& practical":17th th Week ""29 Jan".
2nd semester evaluation::

Assessment 1:"1st mid term :5 th Week "26 March".

Assessment 2 : "2nd mid term 11 th week : "7 May".

Assessment 3:final exam" written" 15 thWeek
"4 Juin"

Assessment 4 final exam " oral& practical "16 th Week "11Juin".

Weighting of Assessments

Mid-Term Examination	30%
Final Examination	25 %
Oral Examination.	10%
Practical Examination	15%
Semester Work	20%

Total 100%

6- List of References

6.1- Course Notes

-Hand out

-Computer-aided learning materials " CD"

6.2- Essential Books (Text Books)

Essential Microbiology for Dentistry, 4th Edition

By Lakshman Samaranayake,2012

6.3- Recommended Books

Free reading on subjects related to infection control measures in dentistry & immunological defense mechanisms against invading pathogens.

6.4- Periodicals, Web Sites, ... etc

Online Microbiology & Immunology data base

7- Facilities Required for Teaching and Learning

Lectures halls : with Data show...

Laboratory classes with basic facilities.

Tutorial classes

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	-							
	a2	-----							
	a3-a8								
b	b1								
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	d2								
	d3								

Assessment methods:

Code	Assessment Method
5-1	Written examination
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ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1								
	a2								
	a3-a8								
b	b1								
	b2								
	b3-b7								
c	c1								
	c2								
	c3-c7								
D	d1								
	d2								
	d3								

Course Coordinator:

Dr.Mervat Abdel Hamid Mohamed Mostafa

Head of Department:

Dr.Mervat Abdel Hamid Mohamed Mostafa

Date: 21 / 4 / 2017

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
for Microbiology 2
SGS 392**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department(s) offering the program: Faculty of Oral and Dental Medicine
Department offering the course: supplementary science
Academic Year / Level: 3rd Year / 6th semester

A- Basic Information

Course Title	Microbiology & Immunology
Code	SGS 392
Credit Hours	2
Lecture /week	2
Practical / week	1
Total	3

Pre-Request: **SGS 391**

B- Professional Information

1 – Overall Aims of Course

- To provide the basic knowledge about including bacteria, viruses and fungi causing diseases relevant to dentistry.
- To enable the students to have practical skills about the different laboratory measures used for diagnosis of different diseases & enable them to take the different protective measures against the most infectious ones

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

by the end of the course the student will be able to:

- a1-** Identify the diseases caused by microorganisms of clinical significance related to dentistry; List its different virulence factors produced
- Recognize the effect of organisms on different culture media;
- Interpret the different tests used for its identification.
- Define the antibiotics used for treatment.

a2-Enumerate the organisms causing Dental unit waterline (DUWL) contamination ;identify the different methods used to diminish this contamination.

a3-List the different organisms causing dental caries ; mention the different factors for cariogenicity.

a4-Identify prion disease ;define its significance for dentistry; list different organisms used as biological weapons.

a5-Describe the structure of virus & the different steps of viral replication & lists the antiviral drugs acting in each steps.

a6-Enumerate blood –borne viruses ;identify their different mode of transmission .

Describe the methods of laboratory diagnosis & the ways of prevention & treatment.

a7-List the different groups of viruses affecting oral mucosa

Describe the methods of laboratory diagnosis & the ways of prevention & treatment.

b- Intellectual Skills:

by the end of the course the student will be able to:

b1-select the suitable specimens for laboratory diagnosis.

b2-choose the suitable media for isolation of different organisms.

b3-recommende the proper antimicrobial agents for treatment of infectious diseases .

b4-choose the proper test to diagnose different diseases .

b5-Identify the oral manifestations of different diseases .

b6-Compare between the different types of Methicillin resistant Staphylococcus aureus;

identify the methods of transmission ,the infection control measures & the antibiotics used for treatment.

c- Professional and Practical Skills:

by the end of the course the student will be able to:

c1- recognize the microscopic appearance of different microorganisms & differentiate between organisms under the microscope.

c2-recognize the effect of organisms on different media

c3-interpret the results of different biochemical & serological tests.

c4-Differentiate between the effect of organisms on blood agar & on identification media.

c5-Interpret the results of antibiotics sensitivity disc .

c6-interpret the result of Tuberculin test.

c7-Identify the different articles used for specimen collection.

d- General and Transferable Skills

d1-Self confidence, communication skills.

d2-Pleasure of learning.

d3 Thinking & comprehension of subject are the best methods for learning.

3- Contents :

First semester contents :

Topic :Lecture	No. of hours	Topic Practical	No. of hours
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-Cell- mediated immunity	2h	8h Tutorials	
-Humoral immunity	2h		
Autoimmunity & immunodeficiency	2h		
Complement	2h		
Tumor immunology	2h		
Oral Defense mechanisms	2h		

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Streptococci & Pneumococci -Oral streptococci	4h	2h	2h
Neisseria Corynebacterium Diphtheria	4h	2h	2h
Mycobacteria -Dental unit waterline contamination	4h	2h	2h
Spirochaetes	4h	2h	2h
-Anaerobic bacteria -Prion disease & dentistry	6h	4h	2h
Fungal infections Probiotics,prebiotics& psychobiotics	2h	2h	2h
Basic Virology	4h	4h	8 h Tutorial
Blood borne viruses: Hepatitis viruses & Human Immunodeficiency virus	4h	4h	
Oncogenic viruses	2h	2h	
Viruses of oral mucosa	2h	2h	
Herpes viruses	2h	2h	

4– Teaching and Learning Methods

4.1-Lectures

4.2-Lab

4.3- Tutorials (class discussion)

5- Student Assessment Methods

5.1 Written exams to assess Knowledge and understanding

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"22 Jan".

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Weighting of Assessments

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Oral Examination.	10%	
Practical Examination	15 %	
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Any formative only assessments

6- List of References

6.1- Course Notes

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-Computer-aided learning materials " CD"

6.2- Essential Books (Text Books)

Essential Microbiology for Dentistry, 4th Edition

By Lakshman Samaranayake,2012

6.3- Recommended Books

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6.4- Periodicals, Web Sites, ... etc
 Online Microbiology & Immunology data base

7- Facilities Required for Teaching and Learning

Lectures halls : with Data show...
 Laboratory classes with basic facilities.
 Tutorial classes

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
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4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	-							
	a2	-----							
	a3-a7								
b	b1								
	b2								
	b3-b6								
c	c1								
	c2								
	c3-c7								
d	d1								
	d2								
	d3								

Assessment methods:

Code	Assessment Method
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a	a1								
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b	b1								
	b2								
	b3-b6								
c	c1								
	c2								
	c3-c7								
d	d1								
	d2								
	d3								

Course Coordinator:

Dr.Mervat Abdel Hamid Mohamed Mostafa

Head of Department:

Dr.Mervat Abdel Hamid Mohamed Mostafa

Date: 21 / 4 /2017

Future University
Faculty of Oral and Dental Medicine

Course Specifications
Pharmacology
SGS301

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department(s) offering the program: Faculty of Oral and Dental Medicine
Department offering the course: supplementary science
Academic Year / Level: 3rd Year / 5th semester

A- Basic Information

Course Title	Pharmacology
Code	SGS301
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS122

B- Professional Information

1. Overall Aims of Course

- To provide the basic knowledge about commonly used groups of drugs in dental practice.
- To enable students to understand the safe use of drugs as regards adverse effects, contraindications and drug interactions

2. Intended Learning Outcomes of Course (ILOs)

By the end of the course, every student will be able to:

a) Knowledge and understanding :

- a1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs used.
- a2- Discuss the adverse and toxic effects , and their management of commonly used groups.
- a3- Given an account on limitations to the use of drugs such as contraindications and drug interactions.
- a4- Define clinically relevant age , sex , and genetic related variations that affect response to drugs.
- a5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.
- a6- Discuss the impact of preventive pharmacology in promoting health and prevent illness.
- a7- Define the principles , the indications , the relative advantages and disadvantages of various pharmacotherapy modalities.

- a8- Discuss the use of life saving drugs.
- a9- Recognize the rational and general guidelines of the use of drugs in the proper dose in special population such as pediatrics , geriatrics , pregnancy and lactation and use in cases of liver and kidney impairment.

b) Intellectual Skills:

- b1- use tailor fitted drug for each patient
- b2- explain drug adverse reactions.

c) Professional and Practical Skills:

- c1- prescribe drugs according to patient condition.
- c2- analyze side effects and adverse drug action.

d) General and transferable Skills:

- d1- Respect Patient's beliefs, values and privacy.
- d2- Respect ethics related to drug prescription and use especially to drugs liable to produce abuse.
- d3- Recognize and effectively deal with unethical behavior of other members of healthcare team

3. Course Contents:

Week	Topic
1	General pharmacology
2	General pharmacology
3	Autonomic nervous sytem
4	Dosage form and routes of drug administration
5	Drugs acting on autonomic nervous system
6	Drugs acting on blood coagulation
7	Drugs acting on blood coagulation
8	Local anesthesia
9	Local anesthesia
10	Locally acting drugs
11	Side of action of drugs
12	Side of action of drugs
13	Revision

4. Teaching and Learning Methods

- 4-1. Lectures.
- 4-2. Tutorials (Small group teaching): clinical scenarios
- 4-3. Practical Modules

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and understanding .
- 5-3. Practical examination to assess practical skills & intellectual skills & general Skills in drug prescription
- 5-4. Log book to assess practical skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

6-1. Course Notes

- Dental pharmacology, principles and concepts

6-2. Essential Books (Text Books)

6-3. Recommended Books

6-4. Periodicals, Web Sites,etc

- Computer aided learning materials e.g. CDs.
- Internet e.g. online pharmacological data base such as micromedix.com

7. Facilities Required for Teaching and Learning

- Lecture Hall : At the building of halls writing boards , overhead projector and Data show is available with prior arrangement.
- Laboratory classes :

Laboratories in the department where facilities for these types of experiments are available (organ bath, recording graphs, chemicals and animals).

- Tutorial Classes :

Small rooms and two halls in the department with overhead projector and one data show.

- Library :

At the 3rd floor of the department.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
	a9	✓							
b	b1	✓							
	b2	✓							
c	c1	✓							
	c2	✓							
d	d1	✓							
	d2	✓							
	d3	✓							

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓			✓				
	a2	✓	✓			✓				
	a3	✓	✓			✓				
	a4	✓	✓			✓				
	a5	✓	✓			✓				
	a6	✓	✓			✓				
	a7	✓	✓			✓				
	a8	✓	✓			✓				
	a9	✓	✓			✓				
b	b1	✓	✓			✓				
	b2	✓	✓			✓				
c	c1			✓						
	c2			✓						
d	d1			✓						
	d2			✓						
	d3			✓						

Course Coordinator: Prof. Salwa Elmeseiry

Head of Department: Prof. Nagwa Roshdy

Future University
Faculty of Oral and Dental Medicine

Course Specifications for Pharmacology

SGS302

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 3rd Year / 6th semester

A- Basic Information

Course Title	Oral Histology
Code	SGS302
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS301

B- Professional Information

1. Overall Aims of Course

- To provide the basic knowledge about commonly used groups of drugs in dental practice.
- To enable students to understand the safe use of drugs as regards adverse effects, contraindications and drug interactions

2. Intended Learning Outcomes of Course (ILOs)

By the end of the course, every student will be able to:

a) Knowledge and understanding :

- a1- Point out the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs used.
- a2- List the adverse and toxic effects , and their management of commonly used groups.
- a3- Discuss an account on limitations to the use of drugs such as contraindications and drug interactions.
- a4- Point out clinically relevant age , sex , and genetic related variations that affect response to drugs.
- a5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs in different patients.
- a6- Realize preventive pharmacology in promoting health and prevent illness.
- a7- Identify the principles, the indications, the relative advantages and disadvantages of various pharmacotherapy modalities.
- a8- describe the use of life saving drugs.
- a9- Recognize the rational and general guidelines of the use of drugs in the proper dose in special population such as pediatrics , geriatrics ,

pregnancy and lactation and use in cases of liver and kidney impairment.

b) Intellectual Skills:

- b1- Use tailor fitted drug for each patient
- b2- Explain drug adverse reactions.

c) Professional and Practical Skills:

- c1- prescribe drugs according to patient condition.
- c2- analyze side effects and adverse drug action.

d) General and transferable Skills:

- d1- Respect Patient's beliefs, values and privacy.
- d2- Respect ethics related to drug prescription and use especially to drugs liable to produce abuse.
- d3- Recognize and effectively deal with unethical behavior of other members of healthcare team.

3. Course Contents:

Week	Topic
1	Inhibitors of cell wall synthesis
2	Protein synthesis inhibitor
3	Protein synthesis inhibitor
4	Drugs acting on cell membrane antifungal drug
5	Folate antagonists
6	Metronidazole
7	Analgesics
8	Analgesics
9	Opioid (Narcotic) analgesic drug
10	Opioid (Narcotic) analgesic drug
11	Sedative hypnotics
12	Sedative hypnotics
13	Revision

4. Teaching and Learning Methods

- 4-1. Lectures.
- 4-2. Tutorials (Small group teaching): clinical scenarios
- 4-3. Practical Modules

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and understanding .
- 5-3. Practical examination to assess practical skills & intellectual skills & general Skills in drug prescription
- 5-4. Log book to assess practical skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination		30	%
Mid Term Practical Examination	20	%	
Oral Examination		10	%
Practical Examination		15	%
Final Written Examination		25	%
Total		100	%
Any formative only assessments			

6. List of References

6-1. Course Notes

- Dental pharmacology, principles and concepts

6-2. Essential Books (Text Books)

6-3. Recommended Books

6-4. Periodicals, Web Sites ,etc

- Computer aided learning materials e.g. CDs.
- Internet e.g. online pharmacological data base such as micromedix.com

7. Facilities Required for Teaching and Learning

- Lecture Hall : At the building of halls writing boards , overhead projector and Data show is available with prior arrangement.
- Laboratory classes :

Laboratories in the department where facilities for these types of experiments are available (organ bath, recording graphs, chemicals and animals).

- Tutorial Classes :

Small rooms and two halls in the department with overhead projector and one data show.

- Library :

At the 3rd floor of the department.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
	a9	✓							
b	b1	✓							
	b2	✓							
c	c1	✓							
	c2	✓							
d	d1	✓							
	d2	✓							
	d3	✓							

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓			✓				
	a2	✓	✓			✓				
	a3	✓	✓			✓				
	a4	✓	✓			✓				
	a5	✓	✓			✓				
	a6	✓	✓			✓				
	a7	✓	✓			✓				
	a8	✓	✓			✓				
	a9	✓	✓			✓				
b	b1	✓	✓			✓				
	b2	✓	✓			✓				
c	c1			✓						
	c2			✓						
d	d1			✓						
	d2			✓						
	d3			✓						

Course Coordinator : Prof. Salwa Elmeseiry

Head of Department : Prof. Nagwa Roshdy

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications for General Pathology

SGS372

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 3rd Year / 5th semester

A- Basic Information

Course Title	General pathology
Code	SGS372
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS272,282

B- Professional Information

1. Overall Aims of Course

- To familiarize students with the basic disease patterns and their underlying. Mechanisms within the specific organ system as step to preparing the student for his future work as a dentist.
- To promote life long competencies necessary for continuous professional development..

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

a1- By the end of the course, the student will be able to identify & discuss the main disease categories that may can affect the body (general pathology) as well as basic mechanisms underlying these disorders (including causes, pathogenesis & natural history)..

a2- By the end of the course, the student will be able to describe the morphologic (gross & microscopic) changes occurring as a result of such disease processes in various organ systems.

a3- The student can also determine the fate & complications of each particular disease and outline the general management procedures..

b) Intellectual Skills:

b1- By the end of the course, the student will be able to predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes responsible for symptomatology and physical changes in the patient.

b2- Interpret in a professional manner an oral pathology report.

c) Professional and Practical Skills:

c1- Describe the pathologic picture of a disorder based on gross or

microscopic morphology, diagnosing it & writing full description of what is seen.

c2- Choose the most appropriate cost effective pathologic diagnostic procedures..

c3- Select the necessary techniques for sample reception & processing according to the nature of specimen received

d) General and transferable Skills:

d1- Express themselves freely and adequately by improving their descriptive capabilities and enhancing their communication skills.

d2- Respond appropriately according to the seriousness of the pathologic diagnosis in an acceptable humane manner, treating the patient as a whole rather than a lesion or specimen

d3- Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the medical profession's accepted contemporary standards in the community.

3. Course Contents:

Weeks	Topic
1	Pathology and its related disciplines
2	Technical Pointers on sample handling, sending, processing
3	Inflammation
4	Growth Disturbance
5	Neoplasia
6	Cytology, Introduction
7	Introduction to Immunohistochemistry
9	How to research topic
10	Revision

4. Teaching and Learning Methods

4-1. General Lectures.

4-2. Tutorials, seminars, small group discussions, role playing and case studies

4-3. Practical sessions

a- Histopathology slide lab

b- Museum of pathology

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Practical exam to assess descriptive & diagnostic abilities and theory application

5-3. Quizzes & drills in practical class 4 times a year to assess knowledge & understanding

5-4. 2 Assignments & 1 end of year project in tutorial to assess of knowledge & understanding & life long learning skills & presentation skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination		30	%
Mid Term Practical Examination	20	%	
Oral Examination		10	%
Practical Examination		15	%
Final Written Examination		25	%
Total		100	%
Any formative only assessments			

6. List of References

6-1. Course Notes

- Department Book available at faculty bookshops & in the department:

Principles of general & special pathology parts 1 & 2 – color atlases of Gross pathology and Histopathology [Edited from Pathology department, Faculty of Medicine, Cairo University (Kasr Alm, Ainy Hospital) 2017].

- Multiple sets of slides to be used during the histopathology sections

6-2. Essential Books (Text Books)

- Department tutorials & practical data shows, available in the department:
- Recommended Textbook: Basic Pathology by Kumar, Cotran & Robbins

Available at faculty bookshops-or General & systemic pathology J.C.E underwood 3rd edition livingstone

- Lecture CDs available in the department on request

6-3. Recommended Books

6-4. Periodicals, Web Sites,etc

- <http://www.pathmax.com/>
- <http://www-medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2>
- <http://www.med.uiuc.edu/PathAtlasf/titlePage.html>
- <http://www.medscape.com/pathologyhome>
- <http://www.gwumc.edu/dept/path/2F.HTM>

7. Facilities Required for Teaching and Learning

- Projector slides covering all slides in slid box
- Multiple sets of slides
- Data show
- Overhead projector
- Museum specimens

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	*	*				
	a2	*	*	*	*				
	a3	*	*	*	*				
b	b1								
	b2								
	b3								
c	c1								
	c2								
	c3								
d	d1								
	d2								
	d3								

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	*	*	*	*		
	a2	*	*	*	*	*	*		
	a3	*	*	*	*	*	*		
b	b1								
	b2								
	b3								
c	c1								
	c2								
	c3								
d	d1								
	d2								
	d3								

Course Coordinator : Prof. Essam Ayad

Head of Department : Prof. Nagwa Roshdy

Future University
Faculty of Oral and Dental Medicine

Course Specifications
General Pathology
SGS373

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 3rd Year / 6th semester

A- Basic Information

Course Title	General pathology
Code	SGS373
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS372

B- Professional Information

1. Overall Aims of Course

- To clarify the basic disease patterns and their underlying mechanisms within the specific organ system as step to preparing the student for his future work as a dentist.
- To encourage life long competencies necessary for continuous professional development..

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

a1- By the end of the course, the student will be able to identify and discuss the main disease categories that may affect the body (general pathology) as well as basic mechanisms underlying these disorders (etiology , pathogenesis & natural history)..

a2- By the end of the course, the student will be able to describe the morphologic (gross & microscopic) changes occurring as a result of such disease processes in various organ systems.

a3- The student can determine the fate & complications of each particular disease and outline the general management procedures..

b) Intellectual Skills:

b1- By the end of the course, the student will be able to predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes responsible for symptomatology and physical changes in the patient

b2- Interpret in a professional manner an oral pathology report.

c) Professional and Practical Skills:

c1- Describe the pathologic picture of a disorder based on gross or

microscopic morphology, diagnosing it & writing full description of what is seen.

c2- Choose the most appropriate cost effective pathologic diagnostic procedures..

c3- Select the necessary techniques for sample reception & processing according to the nature of specimen received

d) General and transferable Skills:

d1- Express themselves freely and adequately by improving their descriptive capabilities and enhancing their communication skills.

d2- Respond appropriately according to the seriousness of the pathologic diagnosis in an acceptable humane manner, treating the patient as a whole rather than a lesion or a specimen

d3- Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the medical profession's accepted contemporary standards in the community.

3. Course Contents:

Weeks	Topic
1	Cell Injury
2	Repair
3.	Circulatory Disorders
4.	Environmental disorders
5.	Infectious Diseases
6.	How to research topic
7.	Revision

4. Teaching and Learning Methods

4-1. General Lectures.

4-2. Tutorials, seminars, small group discussions, role playing and case studies

4-3. Practical sessions

a- Histopathology slide lab

b- Museum of pathology

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Practical exam to assess descriptive & diagnostic abilities and theory application

5-3. Quizzes & drills in practical class 4 times a year to assess knowledge & understanding

5-4. 2 Assignments & 1 end of year project in tutorial to assess of knowledge & understanding & life long learning skills & presentation skills

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination		30	%
Mid Term Practical Examination	20	%	
Oral Examination		10	%
Practical Examination		15	%
Final Written Examination		25	%
Total		100	%
Any formative only assessments			

6. List of References

6-1. Course Notes

- Department Book available at faculty bookshops & in the department:

Principles of general & special pathology parts 1 & 2 – color atlases of Gross pathology and Histopathology [Edited from Pathology department, Faculty of Medicine, Cairo University (Kasr Alm, Ainy Hospital) 2017].

- Multiple sets of slides to be used during the histopathology sections

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- Department tutorials & practical data shows, available in the department:
- Recommended Textbook: Basic Pathology by Kumar, Cotran & Robbins

Available at faculty bookshops-or General & systemic pathology J.C.E underwood 3rd edition livingstone

- Lecture CDs available in the department on request

6-3. Recommended Books

6-4. Periodicals, Web Sites,etc

- <http://www.pathmax.com/>
- <http://www-medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2>
- <http://www.med.uiuc.edu/PathAtlasf/titlePage.html>
- <http://www.medscape.com/pathologyhome>
- <http://www.gwumc.edu/dept/path/2F.HTM>

7. Facilities Required for Teaching and Learning

- Projector slides covering all slides in slid box
- Multiple sets of slides
- Data show
- Overhead projector
- Museum specimens

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	*	*				
	a2	*	*	*	*				
	a3	*	*	*	*				
b	b1								
	b2								
	b3								
c	c1								
	c2								
	c3								
d	d1								
	d2								
	d3								

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	*	*	*	*		
	a2	*	*	*	*	*	*		
	a3	*	*	*	*	*	*		
b	b1								
	b2								
	b3								
c	c1								
	c2								
	c3								
d	d1								
	d2								
	d3								

Course Coordinator : Prof. Essam Ayad
Head of Department : Prof. Nagwa Roshdy

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications for
Oral Pathology
HPT 331**

Course Specifications

Program on which the course is given B.D.S
Department offering the course: Oral Pathology
Academic Year / Level: 3rd Year / 5th Semester

A- Basic Information

Course Title	Oral Pathology
Code	HPT 331
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: HPT222

B- Professional Information

1. Overall Aims of Course

1. To relate the histopathological, radiographic and clinical picture of different developmental alterations of the oral and maxillo- facial region, and common odontogenic pathologies.
2. To Emphasize the difference between hereditary and acquired diseases.
3. To identify etiological factors behind common odontogenic conditions of the oral and para-oral regions.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course, student will be able to:

- a1- Define common developmental and odontogenic disorders.
- a2- Identify the etiology and pathogenesis contributing to oral & paraoral disorders.
- a3- Identify the clinical signs & symptoms of inflammatory and non-inflammatory odontogenic diseases.
 - a4- Recognize the mechanisms of responses to insults including trauma and infection that cause developmental and non-developmental and odontogenic disorders
- a5- Recognize the pathogenesis of genetic and immunologic and infectious diseases which are particularly relevant to the practice of dentistry .

b) Intellectual Skills by the end of the course, student will be able to:

- b1-Recognize the basis of the different modes inheritance
- b2- Distinguish the importance of the procedures for submitting specimens for laboratory diagnosis
- b3- Identify the technical steps for preparation of microscopic slides and the main histopathological stains .

c) Professional and Practical Skills by the end of the course, student will be able to:

- c1- Diagnose different dental and oral pathological conditions , depending on clinical , radiographic and microscopic features .
- c2- Build a differential diagnosis list of different odontogenic lesions, depending on their characteristic clinical , radiographic and histopathological features .

d) General and transferable skills by the end of the course, student will be able to:

- d1- Demonstrate appropriate professional attitudes and behavior in dealing with staff members

3. Course Contents:

Ser.	TOPICS
1	Developmental disturbances affecting the number and size of teeth.
2	Developmental disturbances affecting the shape, structure of teeth and eruption disorders.
3	Dental caries Etiology, role of bacteria, CHO and saliva.
4	Pathology of dental caries.
5	Pulp diseases.
6	Etiology and classification.
7	Focal reversible pulpitis
8	Acute and chronic pulpitis.
9	Pulp necrosis and Calcification
10	Diseases of periapical area
11	Dental granuloma, abcess,alveolar astitis.
12	Osteomyelitis (acute and chronic).
13	Odontogenic cysts.
14	Classification, inflammatory odontogenic cysts.
15	Developmental odontogenic cysts
16	Soft tissue cysts
17	Odontogenic tumours.
18	Classification, epithelial odontogenic tumours.
19	Mesenchymal and mixed odontogenic tumors
20	Developmental disturbances soft tissue
21	Common Infections of the oral cavity

4. Teaching and Learning Methods

- 4-1. Lectures with discussions
- 4-2. Small group sessions.
- 4-3. Tutorial classes
 - Small group teaching
 - Computer projections (Projector slides and power point presentation).
- 4-4. Microscopic slides:
 - a- Demonstration using computer projection
 - b- Discussion and practice of the skill of identification of microscopic slides.

5. Student Assessment Methods

- 5-1. written examination to assess knowledge and understanding and assessment of general intellectual skills
- 5-2. Multiple choice questions to assess knowledge and understanding and

assessment of general intellectual skills

5-3. Oral sheet to evaluate the ability to correlate clinical and histopathological features of different oral and para-oral lesions and to reach a diagnosis and predict prognosis

5-4. Practical examination to assess knowledge and understanding and assessment of practical skills and assessment of general intellectual skills

Assessment Schedule

Assessment 1: 1st Mid Term

Assessment 2: 2nd Mid Term

Assessment 3: Final Written

Assessment 4: Final Practical

Assessment 5: Final oral exam

Weighting of Assessments

Year Woork	20	%
1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Final Written Examination	25	%
Final Oral sheet Examination	10	%
Final Practical Examination	15	%
<hr/>		
Total	100	%

6. List of References

6-1. Course notes

Department notes: available for students to obtain on the MOODLE

6-2. Essential and Text Books :

Oral and maxillofacial pathology fourth edition

NEVILLE, DAMM, ALLEN, CHI (elsevier, 2016) an original copy is supplied by the university to each student at the beginig of the academic year.

6-3. Recommended Books:

Clinical and pathological correlations 7th edition (Regezi, scuibba, jordan)

6-4. The data base available on (EBESCOhost) through the university web site: <http://www.fue.edu.eg>.

And the MOODLE for assignments, announcements, notes and practical presentations of clinical cases , recommended periodicals ; oral surgery, oral medicine, oral pathology,oral radiology.

7. Facilities Required for Teaching and Learning

Facilities used for teaching this course include

Lecture hall

- In the main building of the faculty of oral and dental medicine .
- white boards are available.
- Data show projector

Small group sessions :

- three teaching rooms for each group
- white boards.
- Data show projectors

Library :At the 3nd floor in the main building of the Future University In Egypt

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√		√				√
	a2	√	√		√				√
	a3	√	√		√				√
	a4	√	√		√			√	√
	a5	√	√		√				√
	a6	√	√		√			√	√
b	b1	√	√		√				√
c	c1				√				
	c2				√			√	
d	d1								

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (oral sheet and participation)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	√		√		√				√
	a2	√				√				√
	a3	√				√				√
	a4	√				√				√
	a5	√				√				√
	a6	√		√		√				√
b	b1	√				√				√
c	c1	√		√		√				√
	c2	√		√		√				√
d	d1									√

Course Coordinator :Dr Adham Fahmy

Head of Department : Dr Rehab AbdulMoneim

Date : / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications for
Oral Pathology
HPT 332**

Course Specifications

Program on which the course is given B.D.S
Department offering the course: Oral Pathology
Academic Year 3 / Level: 3rd year / 6th Semester

A- Basic Information

Course Title	Oral Pathology
Code	HPT 332
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: HPT331

B- Professional Information

1. Overall Aims of Course

4. To demonstrate the difference between benign, premalignant and malignant lesions.
5. To associate the histopathological, radiographic and clinical picture of different benign, malignant, premalignant lesions, salivary and bone diseases.
6. To emphasize the different pathogenic factors behind these diseases .

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course, students will be able to:

- a1- Identify different benign and malignant tumors, bone and salivary disorders as well as premalignant lesions.
- a2- Explain the biological processes contributing to neoplastic and non- neoplastic disorders of the oral and paraoral tissues.
- a3- Discover predisposing factors that require intervention to reduce the risk of neoplastic and non-neoplastic disorders.
- a4- Identify the clinical signs & symptoms suggestive of malignancy.
- a5- Interpret the pathogenesis of different oral lesions to reproduce diagnosis and a treatment plan.
- a6- Relate the clinical picture , laboratory findings to the microscopic picture of different bony and soft tissue disorders.

b) Intellectual Skills, by the end of the course, students will be able to:

- b1- Distinguish the concept of immunohistochemistry and the steps for preparation of hematoxylin and eosin stained microscopic slides.

c) Professional and Practical Skills, by the end of the course, students will be able to:

c1- Distinguish between microscopic features of the benign, potentially malignant and frankly malignant lesions of the oral mucosa .

c2- Construct a differential diagnosis list of different oral pathological conditions , depending on their characteristic clinical , radiographic and histopathological features .

d) General and transferable skills, by the end of the course, students will be able to:

d1- Demonstrate appropriate professional attitudes and behavior in dealing with staff members

3. Course Contents:

Ser.	TOPIC
1	Tumours of the oral cavity
2	Benign epithelial neoplasms (squamous cell papilloma, veruca vulgaris and ,keratoacanthoma).
3	Benign mesodermal neoplasms (fibrous tissue, nerve tissue and, muscle origin).
4	Hamartomas (vascular naevi, keratotic naevi and, pigmented naevi).
5	Benign neoplasms of hard tissue (chondroma, osteoma, osteoid osteoma and, benign osteoblastoma).
6	Oral malignant neoplasms
7	Classification – squamous cell carcinoma.
8	Lymphoepithelioma – basal cell carcinoma.
9	Malignant melanoma – sarcomas.
10	Premalignant lesions of the oral cavity
11	Benign keratosis – mucosal dysplasia.
12	Carcinoma in stru-nicotinic stomatitis
13	Actinic cheilosis – oral submucous fibrosis.
14	Diseases of salivary glands.
15	Xerostomia and ptyalism.
16	Classification of salivary gland diseases.
17	Inflammatory salivary gland diseases.
18	Obstructive and traumatic conditions.

4. Teaching and Learning Methods

4-1. Lectures with discussions

4-2. Small group sessions.

4-3. Tutorial classes

- Small group teaching
- Computer projections (histopathological slides and powerpoint presentations).

4-4. Microscopic slides:

a- Demonstration using computer projection

b- Discussion and practice of the skill of identification of microscopic slides.

5. Student Assessment Methods

5-1. written examination to assess knowledge and understanding and assessment of general intellectual skills

5-2. Multiple choice questions to assess knowledge and understanding and assessment of general intellectual skills

5-3. Oral sheet to evaluate the ability to correlate clinical and histopathological

features of different oral and para-oral lesions and to reach a diagnosis and predict prognosis

5-4. Practical examination to assess knowledge and understanding and assessment of practical skills and assessment of general intellectual skills

Assessment Schedule

Assessment 1: 1st Mid Term

Assessment 2: 2nd Mid Term

Assessment 3: Final Written

Assessment 4: Final Practical

Assessment 5: Final oral exam

Weighting of Assessments

Year Work	20	%
1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Final Written Examination	25	%
Final Oral sheet Examination	10	%
<u>Final Practical Examination</u>	<u>15</u>	<u>%</u>
Total	100	%

6. List of References

6-1. Course notes

Department notes: available for students to obtain on the MOODLE

6-2. Essential and Text Books :

Oral and maxillofacial pathology fourth edition

NEVILLE, DAMM, ALLEN, CHI (elsevier, 2016) an original copy is supplied by the university to each student at the beginig of the academic year.

6-3. Recommended Books:

Clinical and pathological correlations 7th edition (Regezi, scuibba, jordan)

6-4. The data base available on (EBESCOhost) through the university web site: <http://www.fue.edu.eg>.

And the MOODLE for assignments, announcements, notes and practical presentations of clinical cases , recommended periodicals ; oral surgery, oral medicine, oral pathology,oral radiology.

7. Facilities Required for Teaching and Learning

2. Facilities used for teaching this course include

Lecture hall

- In the main building of the faculty of oral and dental medicine .
- white boards are available.
- Data show projector

Small group sessions :

- three teaching rooms for each group
- white boards.
- Data show projectors

Library :At the 3nd floor in the main building of the Future University In Egypt

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√		√				
	a2	√	√		√				
	a3	√	√		√				
	a4	√	√		√			√	
	a5	√	√		√				
	a 6	√	√		√			√	
b	b1	√	√		√				
c	c1				√				
	c2				√			√	
d	d1								

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (oral sheet and participation)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	√		√		√				√
	a2	√				√				√
	a3	√				√				√
	a4	√				√				√
	a5	√				√				√
	a6	√		√		√				√
b	b1	√				√				√
c	c1	√		√		√				√
	c2	√		√		√				√
d	d1									√

Course Coordinator :Dr Adham Fahmy

Head of Department : Dr Rehab Abdulmoneim

Date : / /

Course Specifications
General Medicine

SGS 411

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 4th Year / 7th semester

A- Basic Information

Course Title	Internal Medicine & Skin and Andrology
Code	SGS 411
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS302,373

B- Professional Information

1. Overall Aims of Course

1. To support acquisition of knowledge and understanding of health and its promotion, and of disease , its prevention and management , in the context of patient with dental problem
2. To enable the student to acquire and become proficient in basic clinical symptoms and signs such as obtaining a patient's history , pulse , blood pressure and other basic signs.
3. To enable the students to acquire and demonstrate attitude necessary for the achievement of high standards of medical practice , both in relation to the provision of care of individuals and populations and to his or her personal development including a lifelong commitment to continuing medical education
4. To introduce concepts of disease of the skin and venereal disease of interest to the dental field.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Discuss the common Medical problems presenting to doctors in patients with dental problems.
- a2- State the clinical manifestations of common medical disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis .
- a3- Identify the pathogenesis of congenital and acquired syphilis
- a4- Clarify the clinical picture of congenital and acquired syphilis
- a5- Illustrate the proper diagnosis of congenital and acquired syphilis

b) Intellectual Skills:

- b1- Analyze symptoms & signs and construct a differential diagnosis for common presenting complaints
- b2- Evaluate the precaution when dealing with patients with HIV infection
- b3- Describe the pathogenesis and clinical picture of oral ulcers
- b4- Recognize the treatment plan of oral ulcers
 - ◆ Describe the pathogenesis and clinical picture of oral candidiasis
 - ◆ Differentiate between pemphigus pemphigoid
- b5- Clarify the clinical picture of pemphigus pemphigoid
- b6- Identify proper treatment plan

c) Professional and Practical Skills:

- c1- Take history relative to the clinical context .
- c2- Demonstrate physical examination .
- c3- Recognize urgent life-threatening conditions

d) General and transferable skills

- d1-Work effectively in groups.
- d2- Exercise leadership when appropriate.
- d3-Act responsibly in personal and professional relationships.
- d4-Take responsibility for their own learning and continuing personal and professional development.
- d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Week	TOPIC
1	Cardio vascular topics
2	Cardio vascular topics
3	topics Cardio vascular topics
4	Reapiratory topics
5	Reapiratory topics
6	Reapiratory topics
7	GIT & hepatology
8	GIT & hepatology
9	GIT & hepatology
10	Neurology topics
11	Neurology topics
12	Neurology topics
13	Revision

4. Teaching and Learning Methods

- 4-1. Illustrated Lectures : (ILOs : 1,2)
- 4-2. Large group planery sessions in lecture theaters are timetabled , 3 hours weekly .
- 4-3 Clinical Rounds : (ILOs : 3,4,5,6,7)
- 4-4. Tutors demonstrate the practical clinical skills (clinical history and examination of patients) for 2 hours daily for 8 weeks .

5. Student Assessment Methods

- 5-1. Attendance criteria to assess

- 5-2. Written examination to assess knowledge & understanding
- 5-3. clinical exam to assess clinical skills
- 5-4. Oral exam to assess all skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course Notes
- 6-2. Essential Books (Text Books)
 - ◆ Davidson's Principles and Practice of Medicine.
 - ◆ Clinical Medicine Kummar and Clark.
 - ◆ Hutchison's Clinical Methods.
 - ◆ Clinical Examination Macleod , Munro
- 6-3. Recommended Books
 - ◆ A Guide to physical examination , Barbara Bates.
 - ◆ Handout of lectures.
 - ◆ National books approved by the Internal Medicine Council.
 - ◆ CDs and floppy disks in the electronic library.
- 6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture hall.
 - ◆ Rooms for small groups teaching
 - ◆ Black and White Boards
 - ◆ Audio visual aids (data show overhead slide projector ...etc)
 - ◆ Beds and clinical facilities of Future university Teaching hospital
 - ◆ Students' Clinic at the 3rd floor of the old building (work in the clinic is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same clinics .
 - ◆ Library
 - ◆ Located at the 2nd floor of the dental school.
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓	✓	✓					
	a2	✓	✓	✓					
	a3	✓	✓	✓					
	a4	✓	✓	✓					
	a5	✓	✓	✓					
b	b1	✓	✓	✓					
	b2	✓	✓	✓					
	b3	✓	✓	✓					
	b4	✓	✓	✓					
	b5	✓	✓	✓					
	b6	✓	✓	✓					
c	c1	✓	✓	✓					
	c2	✓	✓	✓					
	c3	✓	✓	✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						
	d5		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓		✓					
	a2	✓	✓		✓					
	a3	✓	✓		✓					
	a4	✓	✓		✓					
	a5	✓	✓		✓					
b	b1	✓	✓		✓					
	b2	✓	✓		✓					
	b3	✓	✓		✓					
	b4	✓	✓		✓					
	b5	✓	✓		✓					
	b6	✓	✓		✓					
c	c1	✓	✓		✓					
	c2	✓	✓		✓					
	c3	✓	✓		✓					
d	d1									
	d2									
	d3									
	d4									
	d5									

Course Coordinator : Prof. Noran Elgandor

Head of Department : Prof. Nagwa Roshdy

Date: / /

Course Specifications
General Medicine
SGS 412

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 4th Year / 8th semester

A- Basic Information

Course Title	Internal Medicine & Skin and Andrology
Code	SGS 412
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS411

B- Professional Information

1. **Overall Aims of Course**

5. To support acquisition of knowledge and understanding of health and its promotion, and of disease , its prevention and management , in the context of patient with dental problem
6. To enable the student to acquire and become proficient in basic clinical symptoms and signs such as obtaining a patient's history , pulse , blood pressure and other basic signs.
7. To enable the students to acquire and demonstrate attitude necessary for the achievement of high standards of medical practice , both in relation to the provision of care of individuals and populations and to his or her personal development including a lifelong commitment to continuing medical education
8. To introduce concepts of disease of the skin and venereal disease of interest to the dental field.

2. **Intended Learning Outcomes of Course(ILOs)**

a) **Knowledge and understanding :**

- a1- Discuss the common Medical problems presenting to doctors in patients with dental problems.
- a2- State the clinical manifestations of common medical disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis .
- a3- Identify the pathogenesis of congenital and acquired syphilis
- a4- Clarify the clinical picture of congenital and acquired syphilis
- a5- Illustrate the proper diagnosis of congenital and acquired syphilis

b) **Intellectual Skills:**

- b1- Analyze symptoms & signs and construct a differential diagnosis for

common presenting complaints

b2- Evaluate the precaution when dealing with patients with HIV infection

b3- Describe the pathogenesis and clinical picture of oral ulcers

b4- Recognize the treatment plan of oral ulcers

◆ Describe the pathogenesis and clinical picture of oral candidiasis

◆ Differentiate between pemphigus pemphigoid

b5- Clarify the clinical picture of pemphigus pemphigoid

b6- Identify proper treatment plan

c) Professional and Practical Skills:

c1- Take history relative to the clinical context .

c2- Demonstrate physical examination .

c3- Recognize urgent life-threatening conditions

d) General and transferable skills

d1-Work effectively in groups

d2- Exercise leadership when appropriate.

d3-Act responsibly in personal and professional relationships.

d4-Take responsibility for their own learning and continuing personal and professional development.

d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Week	TOPIC
1	Hematology topics
2	Hematology topics
3	Hematology topics
4	Endocrinology topics
5	Endocrinology topics
6	Endocrinology topics
7	Infections topics
8	Infections topics
9	Infections topics
10	Skin & andrology
11	Skin & andrology
12	Skin & andrology
13	Revision

4. Teaching and Learning Methods

4-1. Illustrated Lectures : (ILOs : 1,2)

4-2. Large group planery sessions in lecture theaters are timetabled , 3 hours weekly .

4-3 Clinical Rounds : (ILOs : 3,4,5,6,7)

4-4. Tutors demonstrate the practical clinical skills (clinical history and examination of patients) for 2 hours daily for 8 weeks .

5. Student Assessment Methods

5-1. Attendance criteria to assess

5-2. Written examination to assess knowledge & understanding

5-3. clinical exam to assess clinical skills

5-4. Oral exam to assess all skills

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations 30 %

Mid Term Practical Examination 20 %

Oral Examination 10 %

Practical Examination 15 %

Final Written Examination 25 %

Total 100 %

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books)

- ◆ Davidson's Principles and Practice of Medicine.
- ◆ Clinical Medicine Kummar and Clark.
- ◆ Hutchison's Clinical Methods.
- ◆ Clinical Examination Macleod , Munro

6-3. Recommended Books

- ◆ A Guide to physical examination , Barbara Bates.
- ◆ Handout of lectures.
- ◆ National books approved by the Internal Medicine Council.
- ◆ CDs and floppy disks in the electronic library.

6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture hall.
- ◆ Rooms for small groups teaching
- ◆ Black and White Boards
- ◆ Audio visual aids (data show overhead slide projector ...etc)
- ◆ Beds and clinical facilities of Future university Teaching hospital
- ◆ Students' Clinic at the 3rd floor of the old building (work in the clinic is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same clinics .
- ◆ Library
- ◆ Located at the 2nd floor of the dental school.

Teaching and learning methods:

Code	Teaching and learning Method
------	------------------------------

4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓	✓	✓					
	a2	✓	✓	✓					
	a3	✓	✓	✓					
	a4	✓	✓	✓					
	a5	✓	✓	✓					
b	b1	✓	✓	✓					
	b2	✓	✓	✓					
	b3	✓	✓	✓					
	b4	✓	✓	✓					
	b5	✓	✓	✓					
	b6	✓	✓	✓					
c	c1	✓	✓	✓					
	c2	✓	✓	✓					
	c3	✓	✓	✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						
	d5		✓						

Assessment methods:

Code	Assessment Method
------	-------------------

5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓		✓					
	a2	✓	✓		✓					
	a3	✓	✓		✓					
	a4	✓	✓		✓					
	a5	✓	✓		✓					
b	b1	✓	✓		✓					
	b2	✓	✓		✓					
	b3	✓	✓		✓					
	b4	✓	✓		✓					
	b5	✓	✓		✓					
	b6	✓	✓		✓					
c	c1	✓	✓		✓					
	c2	✓	✓		✓					
	c3	✓	✓		✓					
d	d1									
	d2									
	d3									
	d4									
	d5									

Course Coordinator : Prof. Noran Elgandor

Head of Department : Prof. Nagwa Roshdy

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
General Surgery & Ophthalmology & E.N.T
SGS 421

Course Specifications

- Program on which the course is given: Bachelor of Dental medicine and Surgery.
- Department offering the program: Faculty of Oral and Dental Medicine.
- Department offering the course; Department of supplementary sciences.
- Academic Year / Level: 4th Year / 7th semester.

A- Basic Information

Course Title	General Surgery & Ophthalmology
Code	SGS 421
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-Request: SGS272, 302,373

B- Professional Information

1. Overall Aims of Course

1. Introduce the dental students to the basic principles of general surgery and to educate them the surgical concepts related to their specialty.
2. To understand the concept, types, and complications of wounds as well as the sound rules for wound healing and its management.
3. Study relationship between the dental work as and circulatory disturbances as shock, cardiac arrest up to complete circulatory failure.
4. Study the relationship between dental work and bleeding; including the different types of hemorrhage and different causes of bleeding disorders.
5. To study the relationship between dental work and surgical infections as well as the use of antibiotics in surgery.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding:

- a1- Discuss signs and symptoms of common general surgical conditions of interest to the dental field.
- a2- Point out the problem of general systemic disturbances in surgery that can occur in the dental clinic.

- a3- Describe the patients' systemic diseases that may affect the outcome of dental procedures and their management.
- a4- Identify and manage different types of wounds, and patterns of wound healing as well as avoidance of its complications.
- a5- Recognize causes, prevention, assessment and treatment of excessive bleeding during dental treatment.
- a6- List indications for blood transfusion and discuss the management of reactions of incompatible blood transfusion.
- a7- Discuss the different types of antibiotics and their spectrum of microorganisms.
- a8- Recognize etiology, pathogenesis, early detection and management of surgical infection.

b) Intellectual Skills:

- b1- Interpret the patient's symptoms and signs in terms of its diagnostic significance.
- b2- Outline the plane of investigations needed for proper diagnosis of the patient.
- b3- Formulate the plane of management after integration of clinical findings and investigations to achieve meticulous diagnosis.
- b4- Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.

c) Professional and Practical Skills:

- c1- Apply the art of surgical history taking from the patient.
- c2- Perform general and local examination.
- c3- Identify normal anatomical findings and landmarks.
- c4- Identify surgical emergencies and life threatening situations.
- c5- Perform simple bed side diagnostic tests as aspiration and trans-illumination.
- c6- Identify different radiological features of surgical diseases.
- c7- Write a safe prescription for head and neck surgical disorders.

d) General and transferable skills

d1-Conduct reliable and responsible behaviors.

d2-Respect the patient's well, privacy, and dignity.

d3-Self-evaluate and discuss professional mistakes in an honest way.

d4-Adopt the policy of continuous medical education.

3. Course Contents:

Week	TOPIC
1	Wounds
2	Wound healing
3	Hemorrhage
4	Surgical hemostasis
5	Bleeding disorders
6	Blood grouping
7	Blood transfusion
8	Cardiac Arrest
9	Peripheral perfusion and oxygenation
10	Shock
11	Surgical infections
12	Antibiotics in surgery
13	Revision

4. Teaching and Learning Methods

- ❖ **Lectures**; for surgical knowledge and subject explanation and demonstration.
- ❖ **Classes**; for case discussion, clinical participation of students, discussing case scenarios, and problem solving.
- ❖ **Clinical data show slide** case demonstration and discussion.
- ❖ **X-ray** sessions for different disease radiological demonstrations.

5. Student Assessment Methods

- 5-1. Written Final exam to assess knowledge and understanding.
- 5-2. Oral exam: to assess knowledge and understanding, intellectual and general skills
- 5-3. Practical (clinical case scenario) exam : to assess practical and intellectual skills
other assignments /
- 5-4. class work and case study to assess student ability to diagnose cases

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Assignment by a research in one of the studied topics

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Class work	20	%
Total	100	%

Any formative only assessments

6. List of References

6-1. Course notes;

- The department notes and printed lectures.
- The PowerPoint lectures and case discussions.

7. Facilities Required for Teaching and Learning

- ◆ Lecture room.
 - ◆ Facilities used for teaching this course include: Lecture hall (at the 3rd floor end of the corridor in old building)
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
b	b1	✓							
	b2	✓							
	b3	✓							
	b4	✓							
c	c1			✓					
	c2			✓					
	c3			✓					
	c4			✓					
	c5			✓					
	c6			✓					
	c7			✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓					✓		
	a2	✓					✓		
	a3	✓					✓		
	a4	✓					✓		
	a5	✓					✓		
	a6	✓					✓		
	a7	✓					✓		
	a8	✓					✓		
b	b1	✓					✓		
	b2	✓					✓		
	b3	✓					✓		
	b4	✓					✓		
c	c1				✓		✓		
	c2				✓		✓		
	c3				✓		✓		
	c4				✓		✓		
	c5				✓		✓		
	c6				✓		✓		
	c7				✓		✓		
d	d1				✓		✓		
	d2				✓		✓		
	d3				✓		✓		
	d4				✓		✓		

Course Coordinator: Prof. Usama Saeed Imam Abdulaal

Head of Department: Prof. Nagwa Roshdy

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications

General Surgery & Ophthalmology & E.N.T
SGS 422

Course Specifications

- Program on which the course is given: Bachelor of Dental medicine and Surgery.
- Department offering the program: Faculty of Oral and Dental Medicine.
- Department offering the course; Department of Supplementary sciences.
- Academic Year / Level: 4th year / 8th semester.

A- Basic Information

Course Title	General Surgery & Ophthalmology
Code	SGS422
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS421

B- Professional Information

1. Overall Aims of Course

- Introduce the dental students to the basic principles of general surgery and to educate them the surgical concepts related to their specialty.
- To provide the student with the basic surgical knowledge of head, neck, and facio-maxillary surgery.
- To enable the student to detect malignant disorders at an early stage.
- To provide the student with the professional surgical attitude, as well as the
- proper application of diagnostic and therapeutic surgical rules.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding:

- a1-Describe the surgical anatomy and physiology of head and neck regions.
- a2-Recognize the common surgical head and neck diseases and its etiology, pathology, clinical features, and complications.

a3-Describe and apply the management rules of common head and neck surgical disorders.

a4-Apply the preventive and screening protocols for common and serious disorders.

a5-Recognize basic principles of simple surgical operations and its postoperative management.

a6-Identify signs and symptoms of common surgical conditions of interest to the dental field.

a7-Describe the emergency situations in maxillofacial injuries and its management.

a8-Relate the dental work with other clean surgeries as ophthalmic operations emphasizing the dental septic foci; their diagnosis, prevention and management.

b) Intellectual Skills:

b1-Interpret the patient's symptoms and signs in terms of its diagnostic significance.

b2-Outline the plan of investigations needed for proper diagnosis of the patient.

b3-Formulate the plan of management after integration of clinical findings and investigations to achieve meticulous diagnosis.

b4-Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.

c) Professional and Practical Skills:

c1-Apply the art of surgical history taking from the patient.

c2-Skillful performance of general and local examination.

c3-Identification of normal anatomical findings and landmarks.

c4-Identify surgical emergencies and life threatening situations.

c5-Perform simple bed side diagnostic tests as aspiration and trans-illumination.

c6-Identify different radiological features of surgical diseases.

c7-Write a safe prescription for head and neck surgical disorders.

d) General and transferable skills

d1-Conduct reliable and responsible behaviors.

d2-Respect the patient's well, privacy, and dignity.

d3-Self-evaluate and discuss professional mistakes in an honest way.

d4-Adopt the policy of continuous medical education.

3. Course Contents:

Ser.	TOPIC
1	Face, lips, and palate diseases and surgery.
2	Tongue diseases and surgery.
3	Salivary glands Diseases and surgery.
4	Gum and floor of mouth surgery.
5	Swellings and tumors of the Jaws.
6	Epulides and Odontomes surgery.
7	Accident and emergency surgery (Maxillofacial injuries)
8	Ear, Nose and Maxillary diseases and surgery
9	Eye diseases and surgery.
10	Cervical lymph nodes, lymphadenopathy and surgery.
11	Congenital anomalies of the head and neck
12	Trauma and injuries of the head and neck
13	Revision

4. Teaching and Learning Methods

- ❖ **Lectures**; for surgical knowledge and subject explanation and demonstration.
- ❖ **Classes**; for case discussion, clinical participation of students, discussing case scenarios, and problem solving.
- ❖ **Clinical data show slide** case demonstration and discussion.
- ❖ **X-ray** sessions for different disease radiological demonstrations.

5. Student Assessment Methods

- 5-1. Written Final exam to assess knowledge and understanding.
- 5-2. Oral exam: to assess knowledge and understanding, intellectual and general skills
- 5-3. Practical (clinical case scenario) exam : to assess practical and intellectual skills
other assignments /
- 5-4. class work and case study to assess student ability to diagnose cases

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Assignment by a research in one of the studied topics

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Oral Examination	10	%
Clinical Examination	15	%

Final Written Examination	25	%
Class work	20	%
Total	100	%

Any formative only assessments

6. List of References

6-1. Course notes;

- The department notes and printed lectures.
- The PowerPoint lectures and case discussions.

7. Facilities Required for Teaching and Learning

- ◆ Lecture room.
 - ◆ Facilities used for teaching this course include: Lecture hall (at the 3rd floor end of the corridor in old building)
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
b	b1	✓							
	b2	✓							
	b3	✓							
	b4	✓							
c	c1			✓					
	c2			✓					
	c3			✓					
	c4			✓					
	c5			✓					
	c6			✓					
	c7			✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓					✓		
	a2	✓					✓		
	a3	✓					✓		
	a4	✓					✓		
	a5	✓					✓		
	a6	✓					✓		
	a7	✓					✓		
	a8	✓					✓		
b	b1	✓					✓		
	b2	✓					✓		
	b3	✓					✓		
	b4	✓					✓		
c	c1				✓		✓		
	c2				✓		✓		
	c3				✓		✓		
	c4				✓		✓		
	c5				✓		✓		
	c6				✓		✓		
	c7				✓		✓		
d	d1				✓		✓		
	d2				✓		✓		
	d3				✓		✓		
	d4				✓		✓		

Course Coordinator: Prof. Usama Saeed Imam Abdulaal

Head of Department: Prof. Nagwa Roshdy

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Endodontics Technology
CONS 433**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Endodontics Departement
Academic Year /Level:4thyear / 7th semester

A- Basic Information

Course Title	of Endodontics
Code	Cons 433
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

B- Professional Information

1. Overall Aims of Course

1. understand the full scope of endodontics
2. Be familiar with pulp space macroscopic anatomy, and variations of root canal system.
3. Be familiar with instruments and materials used in conventional endodontic treatment.
4. Develop sound technical excellence in performing coronal cavity preparation and intra-radicular cleaning and shaping in uncomplicated signal and multi-canaled extracted human permanent teeth using low speed motors.
5. Be aware of procedural errors during root canal treatment, determine the effect on their prognosis, and select appropriate procedure for their correction.
6. Develop and acquire general skills and attitude including : communication skills (student-staff member and with other healthcare professionals), life-long learning, ethical behavior and the profession's wider responsibility towards the community as a whole.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course students should be able to:

- a1- Define the pulp space and list and describe its major components.
- a2- List for each tooth type , the average length , number of roots , most common root curvatures and the most frequent variations in root and pulp anatomy.
- a3- List and describe the basic set of instrument appropriate for these procedures : control access preparation , tooth length determination and radicular preparation
- a4- Explain the basis for standardization of hand and rotary operated instruments
- a5- Describe the action, design and professional use hand and rotary instruments used for cleaning and shaping the root canal, and recognize predisposing factors for instrument fracture.

- a6- Describe the relationships between anatomic apex , radiographic apex and the actual location of the apical foramen
- a7- Recognize why many root curvatures and extra canals are not apparent on standard radiographs and suggest methods revealing them.
- a8- Describe objectives for cleaning and shaping of root canal
- a9- Describe techniques for standardized , flaring (step back and / or crown down) preparations, and determine the appropriate size of the master cone.
- a10- List ideal irrigant properties, identify which irrigant meets most of these criteria and state needles gauges and types used and techniques that provide maximal and safe irrigant effect.
- a11- Discuss the role of chelating and decalcifying agents.
- a12- Describe the purpose of obturation, reasons why inadequate obturation may result in treatment failure and recognize the technical and clinical criteria that determine when to obturate and describe canal preparation for obturation and the significance of smear layer.
- a13- List requirements, indications, mixing and placing techniques and available types of sealers.
- a14- Discuss the technical and radiographic criteria for evaluating the quality of obturation.

b) Intellectual Skills:

By the end of the course students should:

- B1 - Have adequate knowledge of the outline forms of anteriors, premolars and molar extracted human teeth.
- B2 – Have the skill to prepare an access cavity on anterior and premolar extracted teeth and adjust the working length as well as verify the master cone and evaluate postoperative obturation.
- B3- Select and apply the appropriate instrumentation and obturation materials for simple cases.

c) Professional and Practical Skills:

By the end of the course students should be able to

- C1-Draw and label the most common internal and external anatomy of each tooth in the following planes : sagittal section of mesiodistal and faciolingual planes , and cross section through the cervical , middle and apical thirds of the root.
- C2-Draw and label the outline form of the access preparation for all teeth and show the location of each orifice relative to the occlusal or lingual surface.
- C3- Draw and label diagrams of the steps involved for complete access preparations on various teeth.
- C4-Draw and label errors that might occur during access preparations
- C5-Perform with excellence coronal access cavities in anterior and premolar extracted permanent teeth.
- C6-Draw and label diagram of both step back preparation and crown down techniques.
- C7-Draw and label errors that might occur during radicular preparation.
- C8-Perform the step by step technique for obtaining the working lengths using Ingle's method.
- C9-Choose the appropriate instruments and perform with excellence step back preparation technique in anterior and extracted premolar teeth
- C10-Practice the proper use of root canal instruments and their file motions.
- C11- choose and use the appropriate irrigating solution , needles and techniques that provide maximal and safe irrigant effect.
- C12- Draw and label diagram of lateral compaction technique.
- C13- Draw and label errors that might occur during obturation.
- C14-Choose the appropriate instruments and perform with excellence preparation of the canal for obturation in anterior and premolar extracted permanent teeth.

C14- Apply the technical skills of coronal access preparation and working length determination radicular preparation on extracted anterior and premolar permanent teeth.

d) General and transferable skills

-By the end of the course , students should be able to:

d1- Communicate effectively and ethically with members of the dental staff.

3. Course Contents:

Ser.	TOPIC
1	Scope of endodontics
2	Pulp space morphology and macroscopic anatomy
3	Endodontic access cavity preparation
4	Endodontic instruments
5	Working length determination
6	Obturation

Topics and Tentative Schedule:

Weeks	Topics
1st	Introduction to Endodontic and scope of endodontics
2nd	Macroscopic Anatomy and Access cavity preparation
3rd	Macroscopic Anatomy and Access cavity preparation
4th	Endodontic Instruments
5th	Endodontic Instruments
6th	Endodontic Instruments
7th	1st midterm
8th	Cleaning and shaping of the root canal system
9th	Cleaning and shaping of the root canal system
10th	2nd midterm
11th	Obturation of the root canal system
12th	Obturation of the root canal system
13th	Obturation of the root canal system

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Small group (Practical and clinical training)
- 4-3. Demonstrations

5. Student Assessment Methods

- 5-1. Written examination (short questions , multiple choice , quizzes , assignments) to assess knowledge and understanding.
- 5-2. Practical exam to assess clinical skills
- 5-3. Log book , OSPE , attendance , participation to assess intellectual skills & general and transferable skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations		30	%
Mid Term Practical Examination	20	%	
Oral Examination		10	%
Practical Examination		15	%
Final Written Examination		25	%
Total		100	%

6. List of References

- 6-1. Course notes
 - Department books available for students to purchase
- 6-2. Essential Books (Text Books)
 - ◆ Endodontics by Ingle. (library)
 - ◆ Pathways of the pulp by Stephan Cohen and Richard Burnes (library)
 - ◆ Principles and practice of endodontics by Torabinejad (library)
- 6-3. Recommended books
- 6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture Hall at ground and first floor of the dental faculty , writing board is available , overhead slide projector , data show is available with prior arrangement.
- ◆ Students laboratories at ground and first floor of the building (work in the laboratories is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same laboratories.
- ◆ Library:

Located in administration building.

Teaching Plan:

ILOs		Lectures	Small group discussion	Demonstration	Practical (Laboratory) Training and Requirements	E-Learning	PBL
A	A1	√					
	A2	√					
	A3	√	√	√			
	A4	√		√			
	A5	√		√	√		
	A6	√	√	√	√		
	A7	√		√			
	A8	√	√	√	√		
	A9	√	√	√	√		
	A10	√	√	√	√		
	A11	√	√				
	A12	√	√				
	A13	√					
	A14	√	√				
B	B1		√	√			
	B2		√	√	√		
	B3		√	√	√		
C	C1	√	√	√	√		
	C2	√	√	√	√		
	C3	√	√	√	√		
	C4	√	√	√	√		
	C5	√	√	√	√		
	C6	√	√	√	√		
	C7	√	√				
	C8	√	√	√	√		
	C9	√	√	√	√		
	C10	√	√	√	√		
	C11	√	√	√	√		
	C12	√	√	√	√		
	C13	√	√				
	C14	√	√				
	C15	√	√	√	√		
D	D1	√	√		√		

Assessment methods and plans:

ILOs		Written examination	Oral examination	Practical examination	Assignment	Quizzes (continuous assessment)
A	A1	√	√	√	√	√
	A2	√	√		√	√
	A3	√	√	√		√
	A4	√	√		√	√
	A5	√	√		√	√
	A6	√	√	√		√
	A7	√	√			√
	A8	√	√			√
	A9	√	√	√	√	√
	A10	√	√	√		√
	A11	√	√			√
	A12	√	√			√
	A13	√	√			√
	A14	√	√			√
B	B1	√	√	√	√	√
	B2	√	√	√	√	√
	B3	√	√	√	√	√
C	C1	√	√	√		
	C2	√	√	√	√	√
	C3	√	√	√	√	
	C4	√	√	√	√	
	C5	√	√	√	√	
	C6	√	√	√	√	
	C7	√	√	√	√	
	C8	√	√	√	√	
	C9	√	√	√	√	
	C10	√	√	√	√	
	C11	√	√	√	√	√
	C12	√	√	√	√	
	C13	√	√	√	√	√
	C14	√	√	√	√	√
	C15	√	√	√	√	√
D	D1		√			

Course Coordinator : Prof. Medhat Kataya

Head of Department :

Date: / /

Course Specifications
Endodontics Technology
CONS 434

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Endodontics Department
Academic Year /Level:4th year / 8th semester

A- Basic Information

Course Title	Endodontics Department
Code	Cons 434
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Requisite: CONS433

B- Professional Information

1. Overall Aims of Course

- 1) To make the students understand the possible etiology of disease and conditions involving the pulpal and periradicular tissues in permanent teeth.
- 2) To make the students familiar with disease and conditions involving the pulpal and periradicular tissues in permanent teeth
- 3) Be aware of procedural errors during root canal treatment, determine the effect on their prognosis, and select appropriate procedure for their correction.
- 4) Be aware of the recent advances in instruments
- 5) Be familiar with the most common emergencies.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

by the end of the course students should be able to:

- A1- Identify etiologic factors causing pulp inflammation and spread of pulpal inflammation into the periradicular tissue.
- A2- Discuss the purpose of and procedures for extraoral and intraoral examination of soft and hard tissues including clinical pulp testing, percussion, palpation test cavity, selective anesthesia, and transillumination tests.
- A3- Describe radiographic finding that may indicate pulpal or periapical pathosis
- A4- Explain how referred and spreading pain may lead to misdiagnosis
- A5- Describe portal of entry of microorganisms to the pulp and periradicular tissue

- A6- List specific and non specific mediators of pulp inflammation
- A7- List and describe the basic set of instruments appropriate for these procedures: control access preparation, diagnosis, tooth length determination, radicular preparation, and obturation
- A8- describe the etiology and the difference between pulpal and periapical diseases and their different treatment modalities
- A9- Recognize factors that will predispose to instrument fracture example visible changes and number of usage
- A10- List coronal and radicular preparation errors and describe how to avoid and correct if possible
- A11- Identify causes of emergencies as they occur before treatment, between appointments (interappointment flare-up), and after obturation.
- A12- Describe and outline a sequential approach to different endodontic emergencies.
- A13- Outline a system of subjective and objective examinations and radiographic finding to identify the source of emergency pain and the pulpal or periradicular diagnosis.
- A14- discuss recent advances in instrument

b) Intellectual Skills:

By the end of the course students should be able to:

- B1- select and apply the appropriate instrumentation, obturation materials for extracted teeth.
- B2- Differentiate between dentinal pain and pulpal
- B3- distinguish the difference between pain of odontogenic and non odontogenic origin.
- B4- differentiate between pulpal and periapical pathosis, using appropriate terminology according to the diagnostic findings.
- B5- correlate between subjective symptoms and objective findings

c) Professional and Practical Skills:

by the end of the course students should be able to

- C1- interpret radiographs for extracted teeth and determine adjusted working length, verify master cone fit and evaluate postoperative obturation.
- C2- Perform coronal access cavities in anterior , premolar and molar extracted permanent teeth
- C3-Choose the appropriate instruments and perform with excellence step back preparation technique in anterior and extracted premolar teeth
- C4- Practice the proper use of root canal instruments and their file motions and judge any existing errors.
- C5- Choose the appropriate instruments and perform preparation of the canal for obturation, master cone fitting , and sealer mixing lateral condensation technique , in anterior and premolar extracted permanent teeth.

d) General and transferable skills

by the end of the course , students should be able to perform:

- D1- apply contemporary technologies to enhance and expand professional practice
- D2- Recognize the importance of life long learning

3. Course Contents:

Ser.	TOPIC
------	-------

1	Mishaps
2	Differential diagnosis of pulp diseases
3	Pulp and periapical disease
4	Emergency
5	Recent advances in instruments

Topics and Tentative Schedule:

Weeks	Topics
1st	Mishaps
2nd	Mishaps
3rd	Diagnosis of pulp and periapical disease
4th	Diagnosis of pulp and periapical disease
5th	1st midterm
6th	Pulp and periapical disease
7th	Pulp and periapical disease
8th	Pulp and periapical disease
9th	Emergency
10th	Emergency
11th	2nd midterm
12th	Recent advances in instruments
13th	Recent advances in instruments

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Small group (Practical training)
- 4-3. Demonstrations
- 4-4. practical (laboratory) training and requirements

5. Student Assessment Methods

- 5-1. Written examination (short questions , multiple choice) to assess knowledge and understanding.
- 5-2. oral examination
- 5-3. Practical examination to assess clinical skills
- 5-4. quizzes (continuous assessment)
- 5-5. Log book, attendance, participation to assess intellectual skills & general and transferable skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
Assessment 2: 2nd Mid Term Exam
Assessment 3: classwork (practical quizez, attendance, requirements)
Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Classwork assessment	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course notes

Department notes available at the copy center for students to purchase

- 6-2. Essential Books (Text Books)

Textbook of endodontics by Nisha Garg. Amit Garg

- 6-3. recommended books:

- ◆ Endodontics by Ingle.
- ◆ Pathways of the pulp by Stephan Cohen and Richard Burnes 11th edition
- ◆ Principles and practice of endodontics by Torabinejad

- 6-4. Websites:

[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1601-1546/issues](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1601-1546/issues)

7. Facilities Required for Teaching and Learning

- ◆ Lecture Halls at the 2nd and 3rd floor of the dental faculty , writing board is available , overhead slide projector , data show is available with prior arrangement.
- ◆ Students laboratory in the dental faculty in the 1st and 2nd floor comprising 24 units and
- ◆ Library:

Located in the admissions building.

Teaching Plan and learning methods:

ILOs		Lectures	Small group discussion	Demonstration	Practical (Laboratory) Training and Requirements
a	a1	√			
	a2	√			
	a3	√			
	a4	√			
	a5	√			
	a6	√			
	a7	√	√	√	√
	a8	√			
	a9	√	√	√	√
	a10	√	√	√	√
	a11	√			
	a12	√			
	a13	√			
	a14	√	√	√	√
b	b1	√	√	√	√
	b2	√	√		
	b3	√	√		
	b4	√	√		
	b5	√	√		
c	c1		√	√	√
	c2		√	√	√
	c3		√	√	√
	c4		√	√	√
	c5		√	√	√
d	d1	√	√	√	√
	d2	√	√	√	√

Assessment Plan:

ILOs		Written examination	Oral examination	Practical examination	Quizzes (continuous assessment)	Log book
a	a1	√	√		√	√
	a2	√	√		√	√
	a3	√	√		√	√
	a4	√	√		√	√
	a5	√	√		√	√
	a6	√	√		√	√
	a7	√	√	√	√	√
	a8	√	√		√	√
	a9	√	√		√	√
	a10	√	√	√	√	√
	a11	√	√		√	√
	a12	√	√		√	√
	a13	√	√		√	√
	a14	√	√		√	√
b	b1			√	√	√
	b2	√	√		√	
	b3	√	√		√	
	b4	√	√		√	
	b5	√	√		√	
c	c1			√	√	
	c2			√	√	
	c3			√	√	
	c4			√	√	
	c5			√	√	
d	d1		√			
	d2		√			

Course Coordinator : Prof. Medhat Kataya

Head of Department : Prof. Medhat Kataya

Date: / /

Course Specifications
Clinical Restorative
CONS 413

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Operative Dentistry

Academic 4th Year /7th Level

A- Basic Information

Course Title	Clinical Restorative
Code	Cons 413
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: CONS312

B- Professional Information

1. Overall Aims of Course

- This course is to present the general information necessary to understand the fundamentals of the clinical course of operative dentistry:
 - a- To enable the student to understand and apply the basic clinical principles of operative dentistry that constitutes the main demands of the daily practice which includes different patients management during and after the treatment (patient reception , examination , diagnosis , treatment planning, infection control, moisture control and control of pain).
 - b- To enable the student to recognize the principles of caries control and management.
 - c- To enable the student to identify the available restorative material and their selection.
 - d- To enable the student to apply the gained information about the available restorative materials clinically

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding: by the end of the course the student should be able to:

- a1- Describe the appropriate patient position and identify the requirements which should be fulfilled regarding the operative positions.
- a2- Describe the principles of infection control and universal precaution techniques used in dental practice as well as recognize the importance of infection control techniques to the dentist and his/her staff and patients.
- a3- List the reasons and methods for moisture control.
- a4- Describe the rationale for using the rubber dam.

a5- Describe materials, techniques, and processes involved with management of deep carious lesions.

a6- Know about temporary restoration and when to use it.

a7- Understand health hazards that can develop in the operating room

b) Intellectual Skills: by the end of the course, the student should be able to:

b1- Analyze symptoms and signs, and construct a differential diagnosis for common presenting complaints.

b2- Formulate a differential, provisional, or definitive diagnosis by interpreting and correlating findings from the history and the patient interview, the clinical and radiographic findings, and other diagnostic tests and create a problem list.

b3- Develop properly sequenced and alternative treatment plans as appropriate to achieve patient satisfaction and that considers the patient's medical history and all the diagnostic data.

b4- Discuss the diagnosis and treatment options to obtain informed consent; and to modify the accepted plan based upon regular evaluation, unexpected situations, or special patient needs.

b5- Recognize urgent life-threatening conditions that may arise in the operating room.

c) Professional and Practical Skills: by the end of the course, the student should be able to:

c1- Perceive the patients and prepare the operating position and field accurately.

c2- Demonstrate removal of carious lesions and temporization of teeth

c3- Prepare simple and compound cavities.

c4- Restore simple and compound cavities with amalgam or composite restorations.

c5- Perform a comprehensive patient evaluation chart that collects patient history including medication, chief complaint, biological, behavioral, cultural and socioeconomic information needed to assess the patient's medical and oral condition.

c6- Perform isolation of the operating field.

c7- Demonstrate the proper placement and use of the rubber dam, clamps, gingival retractors, and frames to achieve field isolation.

d) General and transferable skills: by the end of the course, the student should be able to:

d1- Infection control.

d2: Chair position.

d3: Clinical ethics principles.

3. Course Contents:

Week	TOPIC
1	Patient Assessment and Examination
2	Diagnosis and Treatment Plan
3	Sterilization and Infection Control
4	Sterilization and Infection Control
5	Moisture Control
6	Managements of Deep Caries

7	Managements of Deep Caries
8	Esthetic Restoration of Posterior Teeth
9	Esthetic Restoration of Posterior Teeth
10	Control of Pain
11	Temporary Restoration
12	Health Hazards
13	Revision

4. Teaching and Learning Methods

- 4-1. Lectures with discussions
- 4-2. Clinical demonstration .

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Clinical examination to assess clinical, intellectual, and general skills.
- 5-3. Log book to assess clinical skills and practical requirements.
- 5-4. Oral examination to assess knowledge and understanding.

Assessment Schedule

- Assessment 1: Practical requirement of the logbook.
- Assessment 2:: midterm (written)
- Assessment 3: practical exam
- Assessment 4: Final written & oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Class work	20 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %

Total 100%

6. List of References

- 6-1. Course notes
- 6-2. Text book: “Contemporary Approach in Operative Dentistry”.

7. Facilities Required for Teaching and Learning

Facilities used for teaching this course include

- Lecture hall: In the main building of the faculty of oral and dental medicine .
- Black board and white board are available.
- Slide projector.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical Requirements
4-4	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3
a	a1	*	*	*
	a2	*	*	*
	a3	*	*	*
b	b1			*
	b2			*
	b3			*
c	c1		*	*
	c2		*	*
	c3		*	*
d	d1			*

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	*			*	
	a2	*	*	*		*
	a3	*	*	*		
b	b1		*	*		
	b2		*	*		
	b3		*	*		
c	c1			*		
	c2			*		
	c3			*		
d	d1			*		

Course Coordinator:

Dr: Rasha Hassan Afify

Head of Department :

Prof. Dr. Essam Abdel Hafez

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Clinical Restorative
CONS 414**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Operative Dentistry
Academic 4thYear / 8thsemester

A- Basic Information

Course Title	Clinical Restorative
Code	Cons 414
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: CONS413

B- Professional Information

1. Overall Aims of Course

- the aim of this course is to present the general information necessary to understand the fundamentals of the clinical course of operative dentistry :
 - a- To enable the student to understand principles of caries control and management.
 - b- To enable the student to be familiar with the available restorative material and their selection.
 - c- To enable the student to apply the gained information about the available restorative materials clinically.
 - d- To enable the student to manage the deep carious lesions.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course the students should :

- a1- State the cause of pain during operative procedures and postoperatively
- a2- List the methods used for pain control and choose the appropriate method to control it during the operative procedures.
- a3- Understand the principles of caries control and management
- a4- Describe the contributing factors in the disease of caries and their interrelationship with tooth , saliva , diet and systemic factors
- a5- Describe the use of conservative intervention
- a6- Choose the appropriate method for controlling dental caries and point out the reasons
- a7- Describe Materials , techniques , and processes involved with management of deep carious lesion

a8- Categorize the material & their use in different cavity designs

a9- Apply the basics of the biological consideration

b) Intellectual Skills by the end of the course the students should:

b1- Analyze symptoms & signs and construct a differential diagnosis for common presenting complaints

b2- Distinguish the clinical aspects and classification of dental caries.

b3- Demonstrate the methods used to assess the patient caries risk

c) Professional and Practical Skills by the end of the course the students should :

c1- Demonstrate surgical removal of carious lesions and temporization of teeth

c2- Demonstrate the ability to prepare and restore simple and compound cavities with amalgam or composite.

C3- Recognize urgent life-threatening conditions

d) General and transferable skills

d1- Apply ethical principles to professional practice.

3. Course Contents:

Ser.	TOPIC
1	Selection of restorative material
2	Biological consideration
3	Post operative pain & hypersensitivity
4	Cariology

Week	Topic
1	Biological consideration (1)
2	Biological consideration (2)
3	Biological consideration (3)
4	Selection of restorative materials (1)
5	Selection of restorative materials (2)
6	1st Mid-Term Exam
7	Selection of restorative materials (3)
8	Post operative pain & hypersensitivity (1)
9	Post operative pain & hypersensitivity (2)
10	Post operative pain & hypersensitivity (3)
	SINAI LIBERATION DAY
11	2nd Mid-Term Exam

	LABOUR DAY
12	Clinical application of composite resin restoration
	Coptic Easter & Sham El-Nesseem Holiday
13	Cariology (1)
14	Cariology (2)
15	Revision
16	Final Exams
17	Final Exams

**Teaching
Learning**

4. and Methods

- 4-1. Lectures with discussions
- 4-2. Small group sessions.
- 4-3. clinical demonstration

5. Student Assessment Methods

- 5-1. Written to assess knowledge and understanding.
- 5-2. Clinical examination to assess clinical skills, intellectual and general skills.
- 5-3. Log book , to assess clinical skills.

Assessment Schedule

- Assessment 1: midterm (written)
- Assessment 2: practical exam
- Assessment 3: Final written & oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Practical Requirement	20 %
Oral Examination	10 %
Final Practical Examination	15 %
<u>Final Written Examination</u>	<u>25 %</u>
Total	100%

6. List of References

- 6-1. Course notes
- Department notes

7. Facilities Required for Teaching and Learning

3. Facilities used for teaching this course include
4. Lecture hall
 - In the main building of the faculty of oral and dental medicine .
 - Black board and white board are available.
 - Overhead projectors.
 - Slide projector.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical Requirements
4-4	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√		√	√
	a2	√		√	√
	a3			√	
	a4	√			√
	a5	√		√	
	a6	√			√
	a7	√			√
	a8	√		√	√
	a9	√	√	√	√
	a10	√	√	√	√
	a11		√	√	
b	b1		√	√	
c	c1		√	√	
	c2		√	√	
	c3		√	√	
	c4		√	√	
d	d1	√	√	√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√			√	√
	a2	√			√	√
	a3	√			√	√
	a4	√			√	√
	a5	√			√	√
	a5	√			√	√
	a6	√			√	√
	a7	√			√	√
	a8	√			√	√
	a9	√			√	√
	a10	√			√	√
	a11	√		√	√	√
b	b1	√	√	√	√	
c	c1			√		
	c2			√		
	c3			√		
	c4	√	√	√	√	
d	d1	√	√	√	√	

Course Coordinator : Ass. P rof. Dr. Ahmed Hoshy.

Head of Department : Prof. DR. Essam Abdel Hafez.

**Course Specifications for
Clinical Crowns & bridges
PROS 423**

Course Specifications

Program(s) on which the course is given B.D.S
Department offering the course: Fixed Prosthodontics
Academic Year / Level : 4th year / 7th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	PROS 423
Credit Hours	2
Lecture /week	1
Practical / week	3
Total	4

Pre-Request: PROS322

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of diagnosis and treatment planning.
- To familiarize the student with component parts of fixed partial denture.
- To enable the students to recognize and practice the different clinical steps from tooth preparation to provisional restorations.
- To learn the students about different types of pontics.
- To educate the students about different types of partial coverage restorations.

2. Intended Learning Outcomes of Course(ILOs)

By the end of this course, the students should be able to:

a) Knowledge and understanding :

- a1- Employ the different diagnostic aids for proper diagnosis
- a2- Discuss techniques of construction of different types of temporary restorations
- a3- Recognize the different methods of tissue dilation .
- a4 - Classify the different types of impression materials & techniques.
- a5 - Classify different types of pontics
- a6- Classify different types of partial coverage restorations.

b) Intellectual Skills:

- b1- Design proper treatment planning using diagnostic skills and knowledge
- b2- Interpret the data obtained by the different diagnostic measures

b3. select the suitable type of pontics.

c) Professional and Practical Skills

c1 perform properly different types of full coverage teeth preparation as bridge retainer on simulator with proper path of insertion.

c2 construct acrylic resin temporary restoration.

D) General and transferable skills

D1. Display appropriate professional communication skills with colleagues, the rest of the dental team, and other relevant person or groups.

D2. Utilize different sources for continuing professional development and life-long learning.

3. Course Contents:

Ser.	TOPIC
1	Diagnosis & Treatment Planning
2	Partial coverage restorations
3	Provisional Restoration
4	Tissue Dilation
5	Impression materials & techniques
6	Bite registration
7	Pontics

4. Teaching and Learning Methods

4-1. Lectures

4-2. Demonstrations

4.3 Clinical classes

5. Student Assessment Methods

5-1. Written examination

5-2. Clinical examination

5-3. Oral examination

5-4 Quizzes

Assessment Schedule

Assessment 1: 1st Mid Term Written Exam

Assessment 2: 2nd Mid Term Written Exam

Assessment 3: Clinical exam

Assessment 4: Final written & oral exam

Weighting of Assessments

1st Mid Term Examination 15 %

2nd Mid Term Examination 15 %

Oral Examination 10 %

Practical Examination 15 %

Final Written Exam 25 %

Other types of requirements 20 %

Total 100 %

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books)

Text books : Rosenthiel- Contemporary fixed Prosthodontics , 5th edition 2016

7. Facilities Required for Teaching and Learning

7.1 Lecture Hall

7.2 Clinical facilities (specialized outpatient clinic)

7.3 Laboratory facilities

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical sections
4-4	assignment

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			
	a2	√			
	a3	√			
	a 4	√			
	a5	√			
b	b1	√			
	b2	√			
	b3	√			
c	c1		√	√	
	c2		√	√	
d	d1-				√
	d2			√	√
	d3			√	√

Please insert rows and columns whenever needed

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Clinical Examination
5-3	Oral examination
5-4	Quizzes

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√		√	√
	a2	√		√	√
	a3	√		√	√
	a4	√		√	√
	a5	√		√	√
	a6	√		√	√
b	b1	√		√	√
	b2	√		√	√
	b3	√		√	√
c	c1		√		
	c2		√		
d	d1		√		
	d2		√		

Course Coordinator :Dr Rasha Nabil
Head of Department :Prof Ashraf Hussein.
Date : / /

**Course Specifications for
Clinical Crowns & bridges
PROS 424**

Course Specifications

Program(s) on which the course is given B.D.S
Department offering the course: Fixed Prosthodontics
Academic Year / Level : 4th year / 8th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	Pros 424
Credit Hours	2
Lecture /week	1
Practical / week	3
Total	4

Pre-Request: PROS423

B- Professional Information

1. Overall Aims of Course

- To familiarize the student with component parts of fixed partial denture.
- To understand the basics of selection of an appropriate fixed partial denture design.
- To familiarize the students with the basics of colour science and shade selection process and checking and verification..
- To enhance the students knowledge about metal ceramic restorations.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Classify different types of connectors.
- a2- Explain all the steps concerning construction of metal ceramic restorations .
- a3- Recognize different bridge components.
- a4- Employ the different types of precession attachments .
- a5- Discuss the details of basics of color science .
- a6- Discuss the details of the process of checking and verification.

b) Intellectual Skills:

- b1- Select proper bridge design.
- b2- Select properly the different bridge component.
- b3- detect different causes of failure of metal- ceramic restorations.

c) Professional and Practical Skills:

- c1- Select the proper bridge design of fixed Partial denture.
- c2- Perform preparation for metal ceramic restoration . .

- c3- Perform proper color selection process.
- c4- Perform properly all the steps of checking and verification

d) General and transferable skills

- d1- Communicate effectively both orally and in written format.
- d2 - Manage time and workload properly.

3. Course Contents:

Ser.	TOPIC
1	Fixed Prosthodontics Design
2	Connectors
3	Precision Attachment
4	Color Science & Shade Selection
5	Metal ceramic restorations
6	Checking & Verification

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Clinical sessions.
- 4-3. Demonstrations.
- 4-4 Assignments

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral exam
- 5-3. Clinical examination
- 5-4. Quizzes

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Mid Term Practical Examination	10	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
<u>Other types of assessment</u>	<u>10</u>	<u>%</u>
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Essential books (Text Books)
Text books : Rosenthiel Contemporary fixed Prosthodontics. 5th edition.

7. Facilities Required for Teaching and Learning

Facilities used for teaching this course include:

1. Lecture room.
2. Clinical Facilities (Specialized outpatient clinic)
(Dental Units)
3. Dental lab.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Clinical Sessions
4-3	Demonstration
4-4	Assignments

Teaching Plan:

ILOs	4-1	4-2	4-3	4-4
a	a1	√		
	a2	√		
	a3	√		
	a4	√		
	a5	√		
	a6	√		
b	b1	√		
	b2	√		
	b3	√		
	b4	√		
c	c1	√	√	√
	c2	√	√	√
	c3	√	√	√
	c4	√	√	
d	d1			√
	d2			√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical examination
5-4	Quizzes (continuous assessment)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√	√		√
	a2	√	√		√
	a3	√	√		√
	a4	√	√		√
	a5	√	√		√
	a6	√	√		√
b	b1	√	√		√
	b2	√	√		√
	b3	√	√		√
c	c1	√	√		√
	c2	√	√		√
	c3	√	√		√
	c4	√	√		
d	d1		√	√	√
	d2			√	

Course Coordinator :Prof. Dr. Eman Anwar

Head of Department :Prof. Ashraf Hussein Sherif

Date : / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Clinical Removable
Prosthodontics
PROS 413**

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the program: **Faculty of Oral and Dental Medicine**

Department offering the course: clinical Removable Prosthodontic

Academic Year / Level: 4th year / 7th semester

A- Basic Information

Course Title	Removable Prosthodontic Technology
Code	PROS413
Credit Hours	2
Lecture /week	1
Practical / week	3
total	4

B- Pre-request: PROS 413

C- Professional Information

1. Overall Aims of Course

- This course is designed to familiarize the students with clinical procedures and techniques used in complete denture removable prosthodontics.
- The student will gain experience in the fabrication of complete dentures.

2.Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

a1- Describe the anatomy and physiology of the oral cavity

a2- Describe various steps of history taking and clinical examination including intra and extraoral examination .

a3- Define different steps for complete denture construction

a4- Describe different impression techniques

a5- Explain various mandibular movements

a6- Recognize jaw relation , basic occlusion , methods of recording jaw realtion in complete denture.

a7- Describe steps of try in , denture insertion and maintaince of complete dental appliance .

a8- Identify patient complains after denture insertion .

a9- List various types of artificial teeth.

a10- Describe remounting, repair, relining, and rebasing of dentures.

b) Intellectual Skills:

- b1- Interpret normal and abnormal edentulous anatomy and its relationship to complete denture fabrication
- b2- Explain different factors related to retention and stability of complete denture .
- b3- Assess the typical problems that can occur during complete denture construction.
- b4- Make decisions regarding common technical discrepancies and faults using appropriate problem solving skills.
- b5- Distinguish patient complain and develop the effective measures for their treatments

c) Professional and Practical Skills:

- c1-Perform intra and extra oral examinations
- c2 Apply procedures of basic impression techniques, jaw relation record, trial and final denture insertion
- c3-Manipulate the dental material necessary for fabrication a complete denture
- c4- Construct casts and models and take required radiographs to formulate the best treatment plan according to patient's needs.
- c5- Manage occlusal disharmonies and post insertion follow up
- c6- Use various instrument used in fabrication of complete dentures.
- c7- Perform the laboratory steps required to fabricate a complete denture.
- c8- Perform Repair for complete dentures.

d) - General and transferable skills

- d1- Dealing with patients with different mental attitude and realizing the personal limitations.
- d2- Self evaluates the professional abilities, performance and progress.
- d3- Uses the information technology to improve the education through self – directed learning and research work activities.
- d4- develop skills of problem solving as well as working in a prescribed time limit.

3.Course Contents:

Weeks	Topics		
	content	Lecture	clinical
1 st week	Diagnosis and treatment planning	1hours	3 hours weekly
2 nd week	Diagnosis and treatment planning	1hours	
3 rd week	Impression	1hours	
4 th week	Impression	1hours	
5 th week	Jaw relation	1hours	
6 th week	1 ST Midterm	1hours	
7 th week	Occlusion	1hours	
8 th week	Occlusion	1hours	
9 th week	Try in	1hours	
10 th week	Delivery	1hours	
11 th week	Vacation (Labor day)	1hours	

12th week	2nd midterm	1hours	
13th week	Revision	1hours	

Week	Topic
1	Introduction
2	Objectives
3	Classification and diagnoses forces
4	Impression making
5	Mandibular movements and positions
6	Recording jaw relations
7	Occlusion
8	Try in for dentures.
9	Delivery for complete dentures
10	Complain about complete dentures
11	Relining and rebasing
12	Revision

4. Teaching and Learning Methods

4-1. Lectures

4-2. practical demonstration

4-3 clinical training

4-3. Requirements

5. Student Assessment Methods

5-1. written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge intellectual skills

5-3. Practical examination to assess practical skills & intellectual skills

5-4 Directs observation

Assessment Schedule

Assessment 1: 1st Mid term (written)

Assessment 2: 2nd Mid term (written)

Assessment 3: Class Assessment

Assessment 4: practical exam in April

Assessment 5: Final written & oral exam

Weighting of Assessments

Weighting of Assessments

Mid-term Examinations 30 %

Final term Examination 25 %

Oral Examination 10 %

Practical Examination 15 %

Class assessment 20 %

Total 100%

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Department Notes

7. Facilities Required for Teaching and Learning

- ◆ Lecture halls
- ◆ Small group classes
- ◆ Laboratories
- ◆ Training models
- ◆ Computers , data show

Intended learning outcome	Teaching Methods	Assessment methods			
	4.a-lectures 4.b- Practical demonstration on teaching models 4.c -clinical demonstration on patients 4-d- Small group discussion 4-e- Assignments.	5.a written	5.b oral exam	5.c practical examination	5.d Direct Observation

Intended learning outcome a-Knowledge By the end of the course every student should be able to:	Teaching Methods	Assessment methods			
		5.a	5.b	5.c	5.d
a1 Describe the anatomy and physiology of the oral cavity	4-a	√	√		
a2 - Define different steps for complete denture construction	4-a	√	√		
a3 Explain various mandibular movements	4-a	√	√		
a4 Identify various types of impression trays	4-a	√	√		
a5 Define retention and stability.	4-a	√	√		
A6 Define relief and posterior palatal seal.	4-a	√	√		
A7 Define jaw relations.	4-a	√	√		
A8 List types of face bows and articulators.	4-a	√	√		
A9 List various types of artificial teeth.	4-a	√	√		
A10 Define balanced occlusion	4-a	√	√		
A11 Describe remounting , repair , relining ,rebasing in complete denture	4-a	√	√		

Intended learning outcome	Intended learning outcome	Skills	Assessment methods					
			Teaching method	Assessment methods				
				5.a	5.b	5.c	5.d	
b- Intellectual skill	c- Professional and practical skills							
By the end of the course every student should be able to:	By the end of the course every student should be able to:							
b1	b1- Interpret normal and abnormal edentulous anatomy and its relationship to complete denture fabrication	4-a,4b	4-b	√	√	√	√	√
b2	c2- Apply procedures of basic impression techniques, jaw relation record, trial and final denture insertion	4-a,4b	4-b	√	√	√	√	√
b3	c3- Make decisions regarding common technical discrepancies and faults using appropriate problem solving skills	4-a,4b	4-b	√	√	√	√	√
B 4	c4- Manage occlusal disharmonies and post insertion follow up measures for their treatment.	4a, 4b	4-b	√	√	√	√	√
	c5- Construct casts and models and take required radiographs to formulate the best treatment plan according to patients needs	4-b	4-c			√	√	√

Intended learning outcome d- General and transferable skills By the end of the course every student should be able to:		Teaching method	Assessment methods			
			5.a	5.b	5.c	5.d
d1	Demonstrate sensitivity and caring attitude in patient care particularly towards elderly patients	4-d			√	√
d2	Display an appropriate professional communication skills with patients, colleagues, the rest of dental team and other relevant team or group	4-d			√	√
d3	Adopt a creative attitude in an ethical and scientific approach.	4-d			√	√
d4	Dealing with patients with different mental attitudes and realizing the personal limitations.	4-d			√	√
d5	Self evaluate the professional abilities, performance and progress.	4-d 4-e			√	√
d6	Use the information technology to improve the education through self-directed learning and research work activities .	4-d 4-e			√	√
d7	Develop skills of problem solving as well as working in a prescribed time limit.	4-d 4-e			√	√

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
A	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	A4	√	√	√		√			
	A5	√	√	√		√			
	A6	√	√	√		√			
	A7	√	√	√		√			
	A8	√	√	√		√			
	A9	√	√	√		√			
	A10	√	√	√		√			
	A11	√	√			√			
b	b1			√		√			
	b2			√		√			
	b3			√		√			
	B4			√		√			
	B5			√		√			
c	c1			√		√			
	c2			√		√			
	c3			√		√			
	C4			√		√			
	C5			√		√			
	C6			√		√			
	C7			√		√			
d	d1			√		√			
	d2			√		√			
	d3			√		√			
	D4			√		√			
	D5			√		√			
	D6			√		√			
	D7			√		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√			
	a2	√	√			√			
	a3	√	√			√			
	A4	√	√			√			
	A5	√	√			√			
	A6	√	√			√			
	A7	√	√			√			
	A8	√	√			√			
	A9	√	√			√			
	A10	√	√			√			
	A11	√	√			√			
b	b1				√		√		
	b2				√		√		
	b3				√		√		
	B4				√		√		
	B5				√		√		
c	c1				√		√		
	c2				√		√		
	c3				√		√		
	C4				√		√		
	C5				√		√		
d	d1						√		√
	d2						√		√
	d3						√		√
	D4						√		√
	D5						√		√
	D6						√		√
	D7						√		√

Course Coordinator:

Head of Department:

Course Specifications
Clinical Removable Prosthodontics
PROS 414

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the program: Removable Prosthodontics
Academic Year /Level:4th year / 8th semester

A- Basic Information

Course Title	Clinical Partial denture
Code	PROS 414
Credit Hours	2
Lecture /week	1
Practical / week	3
Total	4

Pre-Request: PROS413

B- Professional Information

1. Overall Aims of Course

The student will be able to recognize the objectives of removable partial denture, develop the treatment plan and acquiring skill of management of partially edentulous patient.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

- a1- Recognize objectives of partial denture prosthodontics
- a2- Describe the different clinical steps for partial dentures construction.
- a3- Describe mouth preparation procedures and surveying.
- a4- Describe different impression techniques for partially edentulous patient.
- a5- Recognize jaw relation in partially edentulous cases
- a6- List the clinical steps for metal try in.
- a7- Identify patient's complaints after denture insertion and describe effective measures for their diagnosis and treatment.

b) Intellectual Skills:

- b1- Interpret normal and abnormal partially edentulous anatomy and its relationship to partial denture construction ..
- b2- Assess the typical problems that occur during partial denture construction.
- b3- Design appropriate partial denture framework .
- b4- Distinguish patient complains, develop effective measures for their treatment and how to avoid harmful effects of partial denture .

c) Professional and Practical Skills:

- c1- Perform thorough clinical examination both extra and intra oral as well as general assessment of the patient conditions.

- c2- Use of the surveyor in fabrication of partial dentures.
- c3- Perform all clinical steps required to fabricate a partial dentures.

d) General and transferable skills

- d1 – demonstrate sensitivity and attitude in patient care particularly toward elderly patients
- d2 -display appropriate professional communication skills with patients, colleagues and the rest of dental team and other relevant team or group.

3. Course Contents:

Ser.	TOPIC
1	Diagnosis
3	Principles of partial denture design& problems.
4	Impression and mouth preparation
5	Final impression
6	Metal try in
7	Jaw relation
8	Partial denture try in of artificial teeth
9	Initial placement and complaints
10	Harmful effects of partial denture

Weeks	Topics		
	content	Lecture	clinical
1 st week	Overview removable partial denture	1 hours	3 hours weekly
2 nd week	Overview removable partial denture	1 hours	
3 rd week	Diagnosis and primary impression	1 hours	
4 th week	Mouth preparation	1 hours	
5 th week	Secondary impression	1 hours	
6 th	Principles of partial denture design& problems.	1 hours	
7 th	First mid term	1 hours	
8 th	Principles of partial denture design & problems.	1 hours	
9 th	Surveying	1 hours	
10 th	Jaw relation +waxed up try in	1 hours	
11 th	Delivery + relining	1 hours	
12 th	Complains	1 hours	
13 th	Second mid term	1 hours	

4. Teaching and Learning Methods

- 4a-Lectures
- 4b-Clinical demonstration
- 4c-Requirement
- 4d-Assignments.

5. Student Assessment Methods

- 5-1. Written examination
- 5-2 oral exams
- 5-3. Clinical examination

Assessment Schedule

- Assessment 1: 1st Mid term (written)
- Assessment 2: 2nd Mid term (written)
- Assessment 3: Semester Work
- Assessment 4: practical exam
- Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Semester Work	20 %
<hr/>	
Total	100 %

6. List of References

- 6-1 Department notes
- 6-2 Recommended books
- 6-3 Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- 1. Lecture hall
- 2. Clinicals
- 3. Computers, data show

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√	√			
	a2	√	√	√	√	√			
	a3	√	√	√	√	√			
	a4	√	√						
	a5	√	√						
	a6	√	√						
	a7	√	√						
b	b1		√	√		√			
	b2		√	√		√			
	b3		√	√		√			
	b4		√	√		√			
c	c1			√		√			
	c2			√		√			
	c3			√		√			
d	d1			√		√			
	d2			√		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√		
	a2	√	√			√	√		
	a3	√	√			√	√		
	A4	√	√			√	√		
	A5	√	√			√	√		
	A6	√	√			√	√		
	A7	√	√			√	√		
b	b1		√		√				
	b2		√		√				
	b3		√		√				
	b4		√		√				
c	c1				√				
	c2				√				
	c3				√				
d	d1				√			√	
	d2				√			√	

Course Coordinator:

Head of Department:

Course Specifications Oral and Maxillofacial Surgery

OMF 411

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level: 4th year / 7th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF 411
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

B- Professional Information

1. Overall Aims of Course

- 1) To educate students nerve supply for all maxillary and mandibular teeth.
- 2) To educate students dental pain pathway and methods of pain control.
- 3) To educate students pharmacology of local anesthetics and components of local anesthetic carpule.
- 4) To train students in administering local anesthesia for the different dental and oral surgery procedures with regards to infection control protocols
- 5) To educate students local and systemic complications of local anesthesia and their management.
- 6) Introduce the student to the basic principles and techniques of closed exodontia.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

- a1- Describe the physiologic mechanisms of pain modulation and pain control
- a2- Identify the mechanism of action of local anesthetics
- a3- Recognize the different local anesthetic solutions and vasoconstrictors
- a4- Describe the different local anesthetic techniques
- a5- Recognize the local and systemic complications of local anesthesia
- a6- Identify and list the armentarium needed for minor oral surgery procedures

b) Intellectual Skills:

By the end of this course every student able to:

b1- Select the appropriate referral of patients for specialist advice or treatment.

b2- Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan

c) Professional and Practical Skills:

By the end of this course every student able to:

c1- Correctly perform an appropriate physical examination including

intraoral as well as head and neck examination

c2- prepare the armentarium and the treatment environment for minor

oral surgery procedures

c3- collect and record personal data, medical history and vital signs

c4- execute infection control and asepsis standards

c5- perform pre-anesthetic evaluation / premedication

c6- administer infiltration and block local anesthesia

d) General and transferable skills

By the end of this course every student able to:

D1. Perform self-assessment and identification of personal learning needs.

D2. Use of different sources for access to information and knowledge.

D3. Write and present scientific researches

3. Course Contents:

Ser.	TOPIC
1	Nerve supply of maxillary and mandibular teeth and pain pathway
2	Infection control in dental office and methods of sterilization
3	Pharmacology and contents of local anesthetic carpule
4	Techniques of local anesthesia
5	Complications of local anesthesia
6	Anatomical consideration for closed and open exodontia
7	Technique of closed exodontia and postoperative care and instructions

Topics and Tentative Schedule

Weeks	Topics
1st week	Scope of Oral and Maxillofacial Surgery
2nd and 3rd weeks	Anatomical consideration, innervation, pain and pain pathway
4th and 5th weeks	Pharmacology of Local anesthesia
6th, 7th and 8th weeks	Local anesthetic techniques
9th and 10^h week	Local anesthetic complications
11th and 12th weeks	Exodontia and its anatomical considerations
13th week	Aseptic techniques

4. Teaching and Learning Methods

4.1- Lectures

4.2- Small group sessions:

. 4.3- Clinical training (demonstration,)

4.4- Tutorial classes (small group teaching, tutorial demonstration)

4-5 E-learning

5. Student Assessment Methods

5-1. written exam to assess knowledge and understanding

5-2. Oral examination to assess knowledge and understanding & general

Intellectual skills

5-3. practical examination to assess Practical skills & general skills

5-4 Quizzes

5-5 Assignments

Assessment Schedule

Assessment 1: 1st midterm exam (written)

Assessment 2: 2nd midterm exam (written)

Assessment 3: practical exam

Assessment 4: Final written

Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Mid-term Practical Examinations	20 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Total	100 %
Any formative only assessments	

6. List of References

6-1. Course Notes

- Teaching staff lecture notes handouts

6-2. Essential Books (Text Books)

- Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6. 2015
- Handbook of Local Anesthesia by Stanley F. Malamed. Ed6 2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- on the 2nd floor,faculty of oral and dental medicine, Future University
- White writing boards , Overhead projector , Slide projector and LCD projector (Data show) is available

2)- Clinical Small group teaching,clinical sessions and outpatient clinic held in the oral surgery clinics, ground floor, faculty of oral and dental medicine, Future University

3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial Surgery department, white writing borad, x ray viewer, overhead Projector, slide projector, LCD projector (data show) and videotape

3)-Library:

On the 2nd floor of the faculty of oral and dental medicine, Future University

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training (demonstration,)
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√	√			
	a2	√	√			
	a3	√	√			
	a4	√	√			
	a5	√	√			
	a6	√	√			
b	b1		√			
	b2		√			
c	c1		√	√	√	
	c2		√	√	√	
	c3		√	√	√	
	c4		√	√	√	
	c5		√	√	√	
	c6		√	√	√	
d	d1		√			
	D2				√	
	D3					√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√	√	√		
	a2	√	√	√		
	a3	√	√	√	√	
	a4	√	√	√	√	
	a5	√	√	√		
	a6	√	√	√	√	
b	b1		√		√	
	b2		√		√	
c	c1			√		
	c2			√		
	c3			√		
	c4			√		
	c5			√		
	c6			√		
d	d1		√		√	
	D2					√
	D3					√

Course Coordinator:

Dr. Mahmoud Elarini

- Head of Department:
- Professor Doctor/ Ahmed Barakat

Course Specifications
Oral and Maxillofacial Surgery
OMF 412

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level: 4th year / 8th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF412
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

B- Professional Information

1. Overall Aims of Course

- 1) To learn the art of assessing patients and their suitability for all minor surgical procedures, by taking systematic history, including detailed medical history, thorough physical examination and the proper use of investigations.
- 2) To learn the methods and techniques employed to institute infection control measures, sterilization, asepsis and disinfection.
- 3) To educate and train students in administering local anesthesia for the different dental and oral surgery procedures.
- 4) To enable the student to have intellectual and clinical skills in basic, complicated exodontias and minor oral surgical procedures based on an outpatient population.
- 5) To learn about the intra-alveolar technique and the principles of forceps and elevators use.
- 6) To study the indications for trans-alveolar technique, the designing of flaps, the methods employed for bone removal and the different types of suture material.
- 7) To assess impacted teeth and how to treat it and how to design a muco-periosteal flap and to remove bone.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

a1-Discuss the indications and contra-indications of tooth extraction

a2- list the armentarium needed for minor oral surgery procedures

a3-Describe the techniques of forceps extraction and use of dental elevators for uncomplicated exodontia

- a4- Identify the principles of mucoperiosteal flap design and surgical removal of teeth
- a5- Recognize complications resulting from teeth extraction
- a6- Properly identify and diagnose impacted teeth that require removal
- a7- Describe surgical techniques for removal of impacted teeth & complications associated with surgical removal
- a8- Discuss the management of medical emergencies that may occur in the dental office

b) Intellectual Skills:

By the end of this course every student able to:

B1- Relate the advantages and disadvantages of relevant treatment plans with patients

B2- Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan

c) Professional and Practical Skills:

By the end of this course every student able to:

c1- Perform an appropriate physical examination including intraoral and head and neck examination

c2- Prepare the armentarium and the treatment environment for minor oral surgery procedures

c3- Collect and record personal data, medical history and vital signs

c4- Execute infection control and asepsis standards

c5- Perform pre-anesthetic evaluation / premedication

c6- Administer infiltration and block local anesthesia

c7- Give postoperative instructions to the patient

d) General and transferable skills

By the end of this course every student able to:

D1. Working in a team,

D2. Time management efficiently.

D3. Self-learning and continuous.

3. Course Contents:

Ser.	TOPIC
1	Trans-alveolar exodontia
2	Principals of using elevators
3	Complications of exodontia
4	Impacted teeth
5	Pre-prosthetic surgery
6	Medical emergencies in the dental office

Weeks	Topics
1 st ,2 nd and 3 rd weeks	Surgical removal of teeth
4 th , and 5 th weeks	Complications of exodontias
6 th ,7 th and 8 th weeks	Impacted teeth
9 th , and 10 th weeks	Preprosthetic surgery
11 th ,12 th weeks	Medical emergencies in the dental office

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Clinical and Small group sessions :
- 4.3- Clinical training (demonstration, skill practice, chair-side supervision)
- 4.4- Tutorial classes (small group teaching, tutorial demonstration, case presentation, radiographic interpretation)
- 4.5-E-learning

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding
- 5-2. Oral examination to assess knowledge and understanding & general intellectual skills
- 5-3. practical examination to assess Practical skills & general skills
- 5-4 Clinical examination
- 5-5 Quizzes
- 5-6 Assignments
- 5-7 posters

Assessment Schedule

- Assessment 1: 1st midterm exam (written)
- Assessment 2: 2nd midterm exam (written)
- Assessment 3: practical exam
- Assessment 4: Final written
- Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Mid-term Practical Examinations	20 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Total	100 %

6. List of References

- 6-1. Course Notes
 - Teaching staff lecture notes handouts
 - LCD projector (data show) and videotape
- 6-2. Essential Books (Text Books)
 - Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6.2015
 - Handbook of Local Anesthesia by Stanley F. Malamed. Ed.6.2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall :
 - on the 2nd floor, faculty of oral and dental medicine, Future University
 - White writing boards and LCD projector (Data show) is available
- 2)- Clinical Small group teaching, clinical sessions and outpatient clinic held in the oral surgery clinics, 2nd floor, faculty of oral and dental medicine, Future University
- 3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial Surgery department, white writing board, x ray viewer, overhead Projector, slide projector, LCD projector (data show) and videotape

3)-Library: On the 2nd floor of the faculty of oral and dental medicine, Future University.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√	√			
	a2	√	√			
	a3	√	√			
	A4	√	√			
	A5	√	√			
	A6	√	√			
	A7	√	√			
	A8	√	√			
b	b1		√			
	b2		√			
	b3		√			
c	c1		√			
	c2		√			
	c3		√			
	c4		√	√	√	
	c5		√	√	√	
	c6		√	√	√	
	c7			√	√	
d	d1		√		√	
	D2				√	
	D3					√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√							
	a2	√		√	√	√			
	a3	√	√	√	√	√			
	A4	√		√	√	√			
	A5	√		√	√	√			
	A6	√		√	√	√			
	A7	√	√	√	√	√			
	A8	√							
b	b1		√						
	b2		√						
	b3		√						
c	c1		√						
	c2		√						
	c3		√						
	c4		√	√	√	√			
	c5		√	√	√	√			
	c6		√	√	√	√			
	c7			√	√	√			
d	d1						√		√
	D2						√		
	D3								√

Course Coordinator:

- Professor Doctor/ Lobna Abdel Aziz.

Head of Department:

- Professor Doctor/ Ahmed Barakat

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Oral Medicine and Periodontology
MPDR 411**

Course Specifications

Program on which the course is given: Bachelor of Dental Medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, Diagnosis and
Academic Year /Level:4th year / 7th semester

Oral Radiology

A- Basic Information

Course Title	Periodontology
Code	MPDR 411
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-Request: all pre-clinical subjects

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- a) To foster knowledge that governs the principles of innate and acquired immune defense mechanisms.
- b) To provide opportunities for reviewing the macro- and microanatomy of the periodontium, histopathology, etiology and pathogenesis of periodontal diseases.
- c) To expand students analytical skills relative to clinical signs and symptoms and radiographic features of periodontal diseases.

2. 2 Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of this course, the student should be able to:

- a1- Identify the mechanism of innate and acquired immune mechanisms and related immune cells.
- a2- State the different complement pathways and its role in immunity and inflammation.
- a3- Recall the macro- and microanatomy of the periodontium.
- a4- Define different diseases affecting the periodontium.
- a5- Recognize the clinical signs and symptoms and radiographic features of plaque induced gingivitis and chronic periodontitis.
- a6- Explain the etiology of the periodontal diseases.
- a7- Review the pathogenesis of periodontal diseases.

b) Intellectual Skills:**Intellectual Skills:**

By the end of the program the student should be able to:

- b1- Compare between innate and acquired immune responses.
- b2- Differentiate between different types of lymphocytes, subtypes of types T lymphocytes and different functions of antibodies.
- b3- Classify periodontal diseases.
- b4- Differentiate between the different histopathological stages of gingivitis.
- b5- Relate the clinical and radiographic features to reach a proper diagnosis.

c) Professional and Practical Skills:

- c1- fill a periodontal chart.
- c2- Diagnose common gingival and periodontal diseases.
- c3- Apply the principles of periodontal instrumentation.
- c4- Perform efficiently scaling and root planing.
- c5- Choose the appropriate technique and methods for mechanical plaque control.
- c6- Modify the plan for chemical plaque control according to observed signs and symptoms.
- c7- Apply infection control guidelines for all clinical procedures.

d) General and transferable skills:

By the end of the program the student should be able to:

- d1- Maintain good relationship with his/her colleagues, instructors and professors.
- d2- Appreciate and respect the patient s needs and demands.
- d3- Self-evaluate professional abilities, progress and performance.

3. Course Contents:

Ser.	TOPIC
1	Introduction to immunology.
2	Histology
3	Classification, Plaque induced gingivitis, Chronic periodontitis
4	Dental plaque
5	Etiology
6	Pathogenesis

3) Topics and Tentative Schedule:

Week	Lecture Topics	Clinic Schedule
1 st week	<u>Introduction to immunology</u> Innate immunity, Plasma proteins, Antigen characteristics	Macroanatomy of the gingiva, plaque induced gingivitis, chronic periodontitis
2 nd week	Cell mediated immune response (T lymphocytes and Cytokines)	Instrumentation, positions, periodontal chart
3 rd week	Humoral immune response (B lymphocytes)	Mechanical and chemical plaque control

4 th week	Complement	Demo supraginival scaling + CASES
5 th week	1st midterm	CASES
6 th week	Phagocytic system	QUIZ + CASES
7 th week	<u>Periodontology</u> Histology	CASES
8 th week	Classification, Plaque induced gingivitis, Chronic periodontitis	CASES
9 th week	2nd midterm	CASES
10 th week	Dental plaque	CASES
11 th week	Etiology	CASES
12 th week	Pathogenesis	FINAL EXAM PRACTICAL
13 th week	Pathogenesis	FINAL EXAM PRACTICAL

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Practical class work	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%
Any formative only assessments	

6. List of References

6-1. Course notes

6-2. Essential Books (Text books)

- Clinical Periodontology and Implant Dentistry, *Jan Lindhe and Niklaus P. Lang, 6th Edition, 2016.*

6-3. Recommended books

- Carranza`s Clinical Periodontology, *Newman MG, Takei HH, Klokkevold PR, Carranza FA, 12th Edition, 2015.*
- Atlas of Cosmetic and Reconstructive Periodontal Surgery, *Cohen ES, 3rd Edition, 2013.*

6-7. Periodicals, Web Sites.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	*	-	-	-	-	-
	a2	*	*	*	-	-	-	-	-
	a3	*	*	*	-	-	-	-	-
	a4	*	*	*	*	*	-	*	-
	a5	*	*	*	*	*	-	*	-
	a6	*	*	*	-	-	-	-	-
	a7	*	*	*	-	-	-	-	-
b	b1	*	*	*	-	-	-	-	-
	b2	*	*	*	-	-	-	-	-
	b3	*	*	*	*	*	-	*	-
	b4	*	*	*	-	-	-	-	-
	b5	*	*	*	*	*	-	*	-
c	c1	-	-	*	*	*	-	-	-
	c2	-	-	*	*	*	-	-	-
	c3	-	-	*	*	*	-	-	-
	c4	-	-	*	*	*	-	-	-
	c5	-	-	*	*	*	-	-	-
	c6	-	-	*	*	*	-	*	-
	c7	-	-	*	*	*	-	-	-
d	d1	-	-	*	*	*	-	-	-
	d2	-	-	*	*	*	-	-	-
	d3	-	*	-	*	*	-	-	-

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	*
	a2	*	*	-	-	*	*	*	*
	a3	*	*	-	-	*	*	*	*
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	*
b	b1	*	*	-	-	*	*	*	*
	b2	*	*	-	-	*	*	*	*
	b3	*	*	-	*	*	*	*	*
	b4	*	*	-	-	*	*	*	*
	b5	*	*	-	*	*	*	*	-
c	c1	-	*	-	*	-	-	-	-
	c2	-	*	-	*	*	*	*	-
	c3	-	*	-	*	-	-	*	-
	c4	-	*	-	*	-	-	*	-
	c5	-	*	-	*	-	-	*	-
	c6	-	*	-	*	-	*	*	-
	c7	-	*	-	*	-	-	*	-
d	d1	-	-	-	*	-	-	*	-
	d2	-	-	-	*	-	-	-	-
	d3	-	-	-	*	-	-	-	-

Course Coordinator: Lecturer dr. Walid Abbas

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Oral Medicine and Periodontology
MPDR 412**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Oral Medicine, Periodontology, Diagnosis, Oral Radiology

Academic Year /Level:4thyear / 8th semester

A- Basic Information

Course Title	Periodontology
Code	MPDR 412
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-request: MPDR 411

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- 1-To expand students analytical skills to distinguish between various periodontal diseases.
- 2-To relate periodontal diseases to various local predisposing and systemic modifying factors.
- 3-Formulate proper diagnosis and treatment plan for periodontal diseases.
- 4-To provide opportunities for review and analysis of a wide range of non surgical and surgical periodontal therapy.
- 5-To introduce to the recent techniques and materials related to periodontal regeneration.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the program the student should be able to:

- a1- Identify the different local predisposing and systemic modifying factors affecting the periodontium.
- a2- Describe the etiology, clinical and radiographic features and management of aggressive periodontitis..
- a3- State the etiology, clinical and radiographic features and management of acute gingival and periodontal conditions.
- a4- Recall the diagnosis of periodontal diseases.
- a5- Enumerate the factors that affect prognosis of periodontal disease.
- a6- Explain the non surgical and surgical phases of periodontal treatment.
- a7- Describe different modalities of regenerative periodontal therapy.

b) Intellectual Skills:

By the end of the program the student should be able to:

- b1- Classify the local predisposing and systemic predisposing factors.
- b2- Distinguish between chronic and aggressive periodontitis.
- b3- Compare between acute periodontal and periapical abscesses.
- b4- Interpret different signs and symptoms and relate them to various gingival and periodontal diseases.
- b5- Propose the proper treatment plan for different gingival and periodontal conditions.
- b6- Classify the types of grafts and membranes.
- b7- Compare between different types of grafts and different types of membranes.

c) Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Complete periodontal examination and diagnose common gingival and periodontal diseases.
- c2- Distinguish between different types of periodontal diseases.
- c3- Select a treatment plan for different periodontal conditions.
- c4- Perform nonsurgical periodontal therapy including supragingival scaling and subgingival debridement and prescription of mouth rinses.
- c5- Distinguish the possible applications of surgical periodontal therapy.

d) General and transferable skills

By the end of the program the student should be able to:

- d1- Exercise effective communication methods with other health care professionals and auxiliary persons to maximize patient benefits and minimize the risk of errors.
- d2- Motivate students by encouraging team work and leadership activities and develop professional attitude.
- d3- Manage Time and stress with the capability to prioritize work load for better performance and management

3. Course Contents:

Ser.	TOPIC
1	Local predisposing and systemic modifying factors
2	Aggressive periodontitis
3	Acute gingival and periodontal conditions
4	Diagnosis and prognosis of periodontal diseases
5	Non surgical periodontal therapy
6	Surgical periodontal therapy
7	Regenerative periodontal therapy

4) Topics and Tentative Schedule:

Week	Lecture	Clinic Schedule
1 st week	Local predisposing factors	Revision (Writing periodontal chart)
2 nd week	Influence of systemic diseases and disorders on periodontium	CASES

3 rd week	Influence of systemic diseases and disorders on periodontium	CASES
4 th week	Aggressive periodontitis	Demo subgingival scaling and root planing + CASES
5 th week	1st midterm	CASES
6 th week	Periodontal abscess, Acute gingival infections	CASES
7 th week	Diagnosis of periodontal disease, Prognosis of periodontal disease	CASES
8 th week	Mechanical plaque control, Scaling and root planing	Surgical periodontal therapy
9 th week	2nd midterm	Surgical periodontal therapy
10 th week	Chemical plaque control	Quiz + CASES
11 th week	Surgical periodontal therapy, Gingivectomy and Gingivoplasty, Tissue attachment procedures	CASES
12 th week	Periodontal flap, Osseous surgery	<i>FINAL EXAM PRACTICAL</i>
13 th week	Regenerative periodontal therapy	<i>FINAL EXAM PRACTICAL</i>

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Practical class work	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%
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6. List of References

- 6-1. Course notes
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 - Atlas of Cosmetic and Reconstructive Periodontal Surgery, *Cohen ES, 3rd Edition, 2013.*
- 6-7. Periodicals, Web Sites.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and Learning Methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	-	-	-	-	-	-	-
	a2	*	*	*	-	*	-	*	-
	a3	*	*	*	-	*	-	*	-
	a4	*	*	*	-	*	-	*	-
	a5	*	*	-	-	-	-	*	-
	a6	*	*	-	-	*	-	*	-
	a7	*	*	-	-	-	-	*	-
b	b1	*	-	-	-	-	-	-	-
	b2	*	*	*	-	*	-	*	-
	b3	*	*	*	-	*	-	*	-
	b4	*	*	*	-	*	-	*	-
	b5	*	*	*	-	*	-	*	-
	b6	*	*	-	-	-	-	-	-
	b7	*	*	-	-	-	-	-	-
c	c1	-	*	*	-	*	-	-	-
	c2	-	*	*	-	*	-	-	-
	c3	-	*	*	-	*	-	-	-
	c4	-	-	*	-	*	-	-	-
	c5	-	*	*	-	*	-	-	-
d	d1	-	*	-	-	-	-	-	-
	d2	-	*	-	-	-	-	-	-
	d3	-	*	-	-	-	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	-	-
	a2	*	*	-	*	*	-	-	-
	a3	*	*	-	*	*	-	-	-
	a4	*	*	-	*	*	-	-	-
	a5	*	*	-	*	*	-	-	-
	a6	*	*	-	*	*	-	-	-
	a7	*	*	-	*	*	-	-	-
b	b1	*	*	-	-	*	-	-	-
	b2	*	*	-	*	*	-	-	-
	b3	*	*	-	*	*	-	-	-
	b4	*	*	-	*	*	-	-	-
	b5	*	*	-	*	*	*	*	-
	b6	*	*	-	*	*	-	-	-
	b7	*	*	-	*	*	-	-	-
c	c1	-	-	*	*	-	-	-	-
	c2	-	-	*	*	-	-	-	-
	c3	-	-	*	*	-	-	-	-
	c4	-	-	-	*	-	-	-	-
	c5	-	-	*	*	-	-	-	-
d	d1	-	-	-	-	-	-	-	-
	d2	-	-	-	-	-	-	-	-
	d3	-	-	-	-	-	-	-	-

Course Coordinator: Assis. Prof dr. Ahmed Barbary

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

**Course Specifications
Orthodontics**

ORP 431

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Orthodontics

Academic Year / Level: 4th yea / 7th semester

A- Basic Information

Course Title	Introduction to Orthodontics
Code	ORP 431
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: PROS242

B- Professional Information

1. Overall Aims of Course

- 1)-To educate the students about the basics features of facial growth and development and to familiarize students with progressing abnormalities in dental patients .
- 2)- To familiarize the student with the knowledge of occlusion and to be able to manage the etiological factors associated with the disordered occlusion.
- 3)- To enable the students to diagnose orthodontic problems
- 4)- To enable development and application of appropriate professional attitudes and communication .

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course the student should be able to:

- a1- Recognize the basis of normal human facial growth and development from birth until completion of growth
- a2- Describe the stages of normal development of occlusion during infancy , primary dentition , mixed dentition , and permanent dentition
- a3- Recognize the phases of eruption and their effect on development of malocclusion
- a4- Define the terminology of malposed teeth and different types of classification of malocclusion .
- a5- Identify the etiological factors of malocclusion and its impact on the developing occlusion.

a6- Describe extra oral and intraoral examination from an orthodontic perspective

b) Intellectual Skills:

By the end of the course the student should be able to:

b1- Recognize a developing normal occlusion and be able to distinguish abnormal deviation that necessitates treatment .

b2- distinguish between different causes of malocclusion and prophylactic measures against it.

c) Professional and Practical Skills:

By the end of the course the student should be able to:

c1- Record accurately patient's chief complaint

c2- Report and document a complete focused medical and dental history for patients

c3- Carry out extra-oral and intraoral examination of the patient including head and neck , oral hard and soft tissues .

c4- Perform and document a complete physical and mental status examination for a patient

c5- Prescribe diagnostic aids appropriate for every individual case

c6- Interpret acquired data in term of their diagnostic significances .

c7-Identify accurately underlying dento-skeletal abnormalities.

d) General and transferable skills

By the end of the course the student should be able to:

d1- Communicate with other healthcare professionals both verbally and in globally accepted written formats .

d2- Recognize moral and ethical responsibilities involved in the provision of care to individual patients and to community

3. Course Contents:

Ser.	TOPIC
1	Craniofacial Growth and development
3	Development of normal occlusion
4	Description of normal occlusion
4	Classification of malocclusion
5	Terminology of malocclusion
6	Etiology of malocclusion
7	Revision

4. Teaching and Learning Methods

4-1. Lectures

4-2. small group sessions

4-3. Practical demonstrations, Practice of skills, and discussions

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. practical examination to assess ability of data collection , analysis and formulation of a treatment plan

5-3. Oral examination to assess knowledge and understanding (and assessment general and professional skills)

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%	
Mid Term Practical Examination	20	%	
Oral Examination	10	%	
Practical Examination	15	%	
Final Written Examination	25	%	
Total	100	%	
Any formative only assessments			

6. List of References

6-1. Course notes

- Department books : available for students to purchase from department secretary.
- Overhead projectors, slides and computer presentation used during teaching

6-2. Essential books(Text Books)

- "Contemporary orthodontics" by William R. Proffit, Henry W. Fields Jr., 5th edition; April (2012).

7. Facilities Required for Teaching and Learning

- Lecture hall at the Faculty of oral & dental medicine. Writing board, flip chart, overhead and slide projectors are available. Data show is available with prior arrangements.
- practical lab on the second floor of the faculty of oral & dental medicine, future university. Flip charts, overhead projectors and data show are available for use when needed.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√			√		√		
	a2	√			√		√		
	a3	√			√		√		
	a4	√			√		√		
	a5	√		√	√	√	√	√	
	a6	√		√			√	√	
b	b1	√			√		√		
	b2	√			√		√		
c	c1				√				
	c2			√	√		√		
	c3			√	√		√		
	c4			√	√		√		
	c5			√	√		√		
	c6			√	√		√		
	c7			√	√		√		
d	d1				√		√		
	d2				√		√		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	a4	√	√	√		√			
	a5	√	√	√		√			
	a6		√	√		√			
b	b1	√	√	√		√			
	b2	√	√	√		√			
c	c1		√	√			√		
	c2		√	√			√		
	c3		√	√			√		
	c4		√	√			√		
	c5		√	√			√		
	c6		√	√			√		
	c7		√	√			√		
d	d1		√						
	d2		√						

Course Coordinator :

Head of Department : Prof. Yahya Mostafa

Date: / /

Course Specifications
Orthodontics
ORP 432

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Orthodontics

Academic Year / Level :4th year / 8th semester

A- Basic Information

Course Title	Introduction to Orthodontics
Code	ORP 432
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: ORP 431

B- Professional Information

1. Overall Aims of Course

- 1)- To enable the students to diagnose orthodontic problems and methods of management.
- 2)- To understand appropriate time of intervention in potential orthodontic cases and to reach students preventive and interceptive measures in developing malocclusions and improve problem solving skills
- 3)- to understand the possible causes of orthodontic relapse and methods of retention .

3. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course the student should be able to:

- a1- Discuss the concept of extraction in orthodontics
- a2- Discuss the biological principles of tooth movement and describe the different types of tooth movement
- a3- Describe the basic biomechanical principles of orthodontics tooth movement
- a4- Recognize the behavior of orthodontics wires
- a5- Describe the needed measures for the prevention of malocclusion in the primary and mixed dentition stage
- a6- Identify the appropriate management of abnormalities affecting the occlusion in the primary and mixed dentition
- a7- Recognize the basic principles of orthodontic appliance design
- a8- Enumerate possible orthognathic surgical techniques and list the types of

malocclusions that would indicate their choice for treatment .

- a9- Recognize the problem of relapse and the procedures taken to maintain the position of teeth achieved by orthodontic treatment
- a10- Recognize the sequelae of untreated malocclusion and its influence on oral health
- a11- Recognize the interrelationship between orthodontics and other dental specialties
- a12- Recognize the iatrogenic effect in orthodontics

b) Intellectual Skills:

By the end of the course the student should be able to:

- b1- Select appropriate time of intervention in potential orthodontic cases and what these interventions are likely to be
- b2- perform diagnosis , prevention and treatment in the mixed dentition stage

c) Professional and Practical Skills:

By the end of the course the student should be able to:

- c1-distinguish accurately underlying dento-skeletal abnormalities by analyzing cephalometric radiographs.
- c2- Design and effectively utilize simple removable appliances to interfere with a developing malocclusion (simple removable appliances)
- c3- construct appliances that interfere with abnormal oral habits that affect normal development of occlusion .
- c4- Design and utilize appliances to correct cross bite situations in the primary and mixed dentition .

d) General and transferable skills:

By the end of the course the student should be able to:

- d1- Recognize when and how to refer patients for specialist advise or treatment.
- d2- Communicate with other healthcare professionals both verbally and in globally accepted written formats .
- d3- Recognize moral and ethical responsibilities involved in the provision of care to individual patents and to community

3. Course Contents:

	TOPIC
1	Tissue reaction and biomechanical principles of tooth movement
2	Orthodontic appliance design
3	Anchorage
4	Preventive Orthodontics
5	Interceptive Orthodontics
6	Mixed dentition management
7	Orthodontic retention and relapse
8	Iatrogenic effects in orthodontics
10	Revision

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Clinical and small group sessions
- 4-3. Workshops
- 4-4. Practical demonstrations, Practice of skills , and discussions
- 4-5. Lectures :
- 4-6. The lectural hall on the 3rd floor of the faculty of oral and dental medicine;
Once per week from 12pm to 1pm
- 4-7. Small Group sessions and activities ;
- 4-8. Each term, students are divided into 12 equal groups, each group being assigned to a two hour small group session once per week. Students will be divided into two groups during each session.
- 4-9. Workshops
- 4-10. During the course seven workshops will be given covering different topics. Workshops will include lecturing followed by hand on training. Each topic will be given six times within a one week period.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Diagnostic examination to assess ability of data collection , analysis and formulation of a treatment plan
- 5-3. Oral examination to assess knowledge and understanding (and assessment general and professional skills)

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course notes
 - Department books : available for students to purchase from department secretary.
 - Overhead projectors, slides and computer presentation used during teaching
- 6-2. Essential books (Text Books)
 - "Contemporary orthodontics" by William R. Proffit, Henry W. Fields Jr., 5th edition; April (2012).

7. Facilities Required for Teaching and Learning

- Lecture hall at the Faculty of oral & dental medicine. Writing board, flip chart, overhead and slide projectors are available. Data show is available with prior arrangements.
- Small group classes
- practical lab. overhead projectors and data show are available for use when needed.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√					√		
	a2	√					√		
	a3	√					√		
	a4			√	√		√	√	
	a5	√					√		
	a6	√		√			√		
	a7	√		√	√		√	√	
	a8	√			√		√		
	a9	√		√	√		√	√	
	a10	√			√		√		
	a11	√			√		√		
	a12	√			√		√		
b	b1	√			√		√		
	b2	√			√		√		
c	c1	√		√	√		√		
	c2				√		√		
	c3	√			√		√		
	c4	√		√	√		√		
d	d1				√				
	d2				√				
	d3				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	a4			√		√	√		
	a5	√	√	√		√			
	a6	√	√	√		√			
	a7	√	√	√		√			
	a8	√	√	√		√			
	a9	√	√	√		√			
	a10	√	√	√		√			
	a11	√	√	√		√			
	a12	√	√	√		√			
b	b1	√	√	√		√			
	b2	√	√	√		√			
c	c1	√	√	√		√			
	c2			√		√			
	c3	√	√	√		√			
	c4	√	√	√		√			
d	d1		√						
	d2		√						
	d3		√						

Course Coordinator :

Head of Department : Prof. Yahya Mostafa

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course specifications
For Oral Radiology
MPDR 431**

Course Specifications

**Program on which the course is given: Bachelor of Oral and Dental medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, diagnosis, and Radiology
Academic Year /Level:4th year / 7th semester**

A- Basic Information

Course Title	Science of Dental Material
Code	MPDR 431
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-requisite: Preclinical stage

B- Professional Information

1. *Overall Aims of Course*

1. To provide the students with basic information related to X-ray nature, production, equipment and materials used in the process of radiography.
2. To demonstrate and train students to perform all intra oral radiographic examination in terms of exposing, processing, and handling radiographs.
3. To enable the students to interpret radiographic images used in the dental profession.
4. To appreciate safety procedures to avoid hazards to themselves, to the patients and to the environment.

2. *Intended Learning Outcomes of Course (ILOs)*

A-Knowledge and Understanding

By the end of this course the student will be able to:

- 1- Recognize radiation physics, including X-rays production, different components of X-ray machine and the various properties of X-rays
- 2- State how images are produced and different image characteristics as density, contrast, sharpness and resolution.

- 3- List types of radiographic films by size, number and speed (intra-oral and extra-oral), screens, its different types and structure.
- 4- Explain the principles of all the intra oral radiographic techniques
- 5- Describe how images are produced by processing and describe different processing techniques and chemicals.
- 6- Describe the digital radiography systems and their advantages and uses.
- 7- Explain the principles of extra-oral radiographic techniques and understand their indications.
- 8- Recognize different radiographic pitfalls, their causes and method of overcome.
- 9- Identify anatomical landmarks related to various intra-oral and extra-oral radiographs.
- 10- Discuss major principles of radiation biology, doses, and methods of protection with special emphasizes on the ALARA concept
- 11- Discuss the methodological approach and principles of radiographic interpretation and description of lesions.
- 12- Describe different carious lesions and radiographic methods of their evaluation.
- 13- Recognize different periodontal lesions and radiographic methods of their evaluation.

B. Intellectual Skills:

By the end of this course the student will be able to:

- 1- Make decisions regarding proper radiographic prescription.
- 2- Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs.

C-professional and practical skills

By the end of this course the student will be able to:

- 1- Apply their knowledge and skills in radiographic techniques and processing to acquire excellent diagnostic quality radiographs
- 2- Complete full mouth periapical, bitewing, and occlusal survey images (CMS) for adults and children.
- 3- Perform different extra-oral radiographic techniques by applying proper principles and interpretation
- 4- Point out normal radiographic anatomy and variations as well as common dental pathology seen on intraoral radiographs.
- 5- Learn the radiographic interpretation basics to enhance diagnostic skills and also on extra-oral radiography, panoramic radiography and digital radiography.
- 6- Identify different radiographic carious lesions.
- 7- Perform radiographic assessment means of different periodontal lesions.
- 8- Interpret radiographs of some teeth-related syndromes, as well as traumatic injuries of teeth and jaws.

D-General skills:

By the end of this course the student will be able to:

- 1- Work effectively in a group or team to achieve goals.
- 2- Show initiative and leadership abilities.

- 3- Gather, interpret and analyze information
- 4- .Manage time effectively

3. Course Contents:

w	Lecture Sunday 9-11 am @301	Lab/ clinic Mon 9-11 am @
1	<ul style="list-style-type: none"> • Introduction to the course • Nature and types of radiation • X ray machine and production of x ray 	<ul style="list-style-type: none"> • X ray machine accessories • Image characters • Exercises on image characters Demo x ray machine parts, accessories, and their types
2	<ul style="list-style-type: none"> • Dental film 	<ul style="list-style-type: none"> • Processing • Demo processing
3	IO techniques (periapical)	<ul style="list-style-type: none"> • Demo IO techniques • Infection control
4	<ul style="list-style-type: none"> • IO techniques (bitewing and occlusal) • Object localization • Object localization exercises • Digital radiography 	<ul style="list-style-type: none"> • Periapical upper and lower central
5	<ul style="list-style-type: none"> • IO landmarks(mandible and maxilla) 	<ul style="list-style-type: none"> • Periapical upper and lower canine
6	<ul style="list-style-type: none"> • EO views • EO landmarks • <u>1st midterm exam(15 marks)</u> 	<ul style="list-style-type: none"> • Periapical upper and lower molars
7	<ul style="list-style-type: none"> • Panoramic radiography (principle, technique and errors) • Panoramic anatomy 	<ul style="list-style-type: none"> • Common technique and processing errors
8	<ul style="list-style-type: none"> • Alternative and specialized imaging modalities • <u>Last date of deliver EO landmarks (4marks)</u> 	<ul style="list-style-type: none"> • Demonstration on panoramic and cephalometric machines and radiography
9	<ul style="list-style-type: none"> • Alternative and specialized imaging modalities(cont.) 	<ul style="list-style-type: none"> • Dosimetry • Biological effects of radiation • <u>Radiation protection(group presentations 4 marks)</u>
10	<ul style="list-style-type: none"> • Principles of interpretation • Description of a lesion • Basics of DD 	Bitewing premolars and molars
11	<ul style="list-style-type: none"> • Caries • <u>2nd midterm exam(15 marks)</u> 	Processing of requirements
12	<ul style="list-style-type: none"> • Periodontal diseases • Periapical lesions 	Processing of requirements
13	Traumatic injuries	Writing radiographic report (caries, periapical, PD)

14	Practical exams <i>Last date of deliver processed radiographs (12 marks)</i>
15	Final exams

Practical outline

By the end of the course, students will be required to have performed and interpreted an adult full-mouth set of radiographs, two panoramic views (including one edentulous or partially edentulous case).

5) Topics and Tentative Schedule:

4. *Teaching and Learning Methods*

- 4-1 Lectures by PPS presentations
- 4-2 Open – discussion lectures
- 4-3 Practical training:

5. *Student Assessment Methods*

- 5-1. continuous formative quizzes to assess knowledge and understanding
- 5-2. Group work to assess practical skills, team work, and self-presentation
- 5-3. Assignment to assess general and transferrable skills
- 5-4. Case studies, clinical requirements, and reports to assess clinical skills
- 5.5. Final Written examination to assess knowledge and understanding.
- 5-6. Final Oral examination to assess knowledge and understanding, and personal conduct.
- 5-7. final clinical examination to assess practical skills
- 5-8. Structured feedback to assess practical skills

Assessment Schedule

- Assessment 1: formative quiz (week 3)
- Assessment 3: first midterm (written/week 5)
- Assessment 4: group presentation (pps /week 8)
- Assessment 5: formative quiz (week 9)
- Assessment 6: second midterm (spotting/ week 11)
- Assessment 7: practical exam (week 14)
- Assessment 8: Final written & oral exam (week 15)

Weighting of Assessments

1 st Mid-term Examinations	15 %
2 nd Mid-term Examinations	15 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>
Total	100%

7. *List of References*

6-1. Course Notes : Hand out : available for students from the department

6-2 Recommended (Text Books)

Essentials of dental radiography and radiology, By Eric Waites, 5th ed, Churchill Livingstone 2013

6-3 presentation: available for the students from the department

8. *Facilities Required for Teaching and Learning*

- 1- data show projector
- 2- periapical x ray machines with equipment
- 3- processing dark room with equipment
- 4- panoramic and cephalometric machine with equipment
- 5- viewer boxes
- 6- lecture hall
- 7- small group lecture room

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2		✓						
	a3	✓							
	a4								
	a5		✓	✓	✓				
	a6	✓	✓						
	a7	✓							
	a8		✓	✓					
	a9		✓	✓					
	a10						✓		✓
	a11	✓							
	a12	✓	✓						
	a13	✓	✓						
b	b1		✓						
	b2		✓						
c	c1				✓	✓			
	c2			✓		✓			
	c3			✓					
	c4		✓	✓					✓
	c5		✓	✓					✓
	c6		✓	✓					
	c7		✓	✓					
	c8		✓	✓					
d	d1				✓				
	d2				✓				
	d3				✓				
	d4				✓				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓	✓			✓			
	a2	✓	✓			✓			
	a3	✓	✓			✓			
	a4	✓	✓		✓	✓			
	a5	✓	✓		✓	✓			
	a6	✓	✓	✓		✓			
	a7	✓	✓	✓		✓	✓		
	a8	✓	✓	✓		✓			
	a9	✓	✓			✓			
	a10	✓	✓			✓		✓	
	a11	✓		✓		✓			
	a12	✓	✓	✓		✓			
	a13	✓	✓	✓		✓			
b	b1	✓	✓						
	b2		✓	✓					
c	c1		✓		✓				
	c2		✓		✓				
	c3	✓	✓	✓			✓		
	c4	✓	✓	✓		✓	✓		
	c5		✓			✓			
	c6		✓		✓	✓			
	c7		✓		✓	✓			
	c8	✓	✓		✓				
d	d1				✓				
	d2				✓				
	d3				✓				
	d4				✓				

Course Coordinator: Prof. Gihan Omar**Head of department: Prof. Shahira Elashery****Date of Approval: 3/9/2017**

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Diagnosis and Radiology
MPDR 432**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, Diagnosis and
Academic Year /Level:4th year / 8th semester

Radiology

A- Basic Information

Course Title	Oral Diagnosis
Code	MPDR 432
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-request: MPDR 431

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- a) To foster knowledge that governs the principle of oral diagnosis.
- b) To provide opportunities for review and analysis of a wide range of patients chief complaints.
- c) To expand students analytical skills relative to clinical signs and symptoms and adjunctive special investigations of oro-dental diseases.
- d) To apply and predict the knowledge obtained for the appropriate diagnosis of oro-dental diseases.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the program the student should be able to:

- a1- Define different types of oral diagnosis.
- a2- State scientific rules for obtaining patient history.
- a3- Review different types of chief complaints.
- a4- Explain different techniques of oral examination.
- a5- Recognize the different instruments, devices and methods used in the field of oral diagnosis.
- a6- Recognize normal landmarks both extraoral and intraoral to be able to detect abnormalities.
- a7- Recall different laboratory tests which aid the dentist in diagnosis of different oral lesions.

b) Intellectual Skills:

By the end of the program the student should be able to:

- b1- Differentiate between the different types of oral diagnosis.

- b2- Compare between different methods of history taking.
- b3- Prepare different history taking for different chief complaints.
- b4- Classify head and neck lymph nodes.
- b5- Interpret signs and symptoms and physical findings in terms of their anatomic, pathologic, and functional diagnostic significance.
- b6- Propose different laboratory investigations that aid in diagnosis of different systemic conditions.

c) Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Practice a comprehensive extraoral and intraoral examination including head and neck, oral hard and soft tissues.
- c2- Use different instruments and techniques of clinical examination and recognize their limitations and hazards and obtain vital signs properly.
- c3- Choose the appropriate laboratory investigations that aid in the diagnostic process.
- c4- Prepare a prioritized list of tentative diagnosis, differential diagnosis and final diagnosis of each presented chief complaint/s.
- c5- Apply infection control policies.

d) General and Transferable Skills:

By the end of the program the student should be able to:

- d1-Focus on task and prioritize and schedule responsibilities .
- d2-Interacts appropriately with peers and cooperates with others.

3. Course Contents:

Ser.	TOPIC
1	Introduction and scope of oral diagnosis
2	Patient history
3	Methods of clinical examination
4	Extraoral examination
5	Intraoral examination
6	Laboratory investigations

6) Topics and Tentative Schedule:

Week	Lecture	Clinic schedule
1 st week	Patient History: Types of diagnosis, Diagnostic terms, Methods for obtaining case history: Types of questions, Aspects for effective and successful interview	Patient History
2 nd week	Patient identification, Chief complaint, Common chief complaints, History of chief complaint	Extra- and Intraoral Examination
3 rd week	Swelling as a chief complaint, Bleeding as a chief complaint, Dental history, Family history, Social history	Demo. Lymph node and TMJ Examination
4 th week	Personal habits, Medical history, Review of	CASES

	systems	
5 th week	1st midterm	CASES
6 th week	<u>Extraoral examination</u> Examination techniques, General appraisal of the patient, Skull and cranium, Causes of facial asymmetry, Face, Eyes, Nose, Ears, Hair, Skin, Arms and hands	CASES
7 th week	TMJ, Muscles of mastication (masseter, temporalis), General rules for neck examination, Sternocleidomastoid muscles, Classification of lymph nodes, Causes of lymph node enlargement	QUIZ + CASES
8 th week	<u>Intraoral examination:</u> General appraisal , Buccal mucosa, Lips and labial mucosa, Buccal mucosa, Buccal vestibule	CASES
9 th week	2nd midterm	CASES
10 th week	Hard palate, Soft palate, Oropharyngeal region, Floor of mouth, Tongue	CASES
11 th week	<u>Laboratory investigations</u> RBC and WBC examination	CASES
12 th week	Platelet examination, Tests for bleeding	<i>FINAL EXAM PRACTICAL</i>
13 th week	Tests for diabetes, Liver and Kidney diseases	<i>FINAL EXAM PRACTICAL</i>

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

Assessment 1: first term (written)

Assessment 2: second term (written)
Assessment 3: practical exam
Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Midterm practical examination	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %

Total 100%
Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Essential Books (Text books)
 - Strategies in Dental Diagnosis and Treatment Planning, *Robert B Morris*, 2004.
 - Principles of Oral Diagnosis; *Gary C Coleman; John F Nelson, Illustrated Edition, 1993.*
- 6-3. Recommended books
 - Clinical problem solving in dentistry; *1st Edition, 2002.*
- 6-7. Periodicals, Web Sites,.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and Learning Methods:

Code	Teaching and Learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	-	-	-	-	*	-
	a2	*	*	-	*	*	-	*	-
	a3	*	*	-	*	*	-	*	-
	a4	*	*	-	*	*	-	*	-
	a5	*	*	-	*	*	-	*	-
	a6	*	*	-	*	*	-	*	-
	a7	*	*	-	*	*	-	*	-
b	b1	*	*	-	-	-	-	-	-
	b2	*	*	-	-	-	-	-	-
	b3	*	*	-	-	-	-	-	-
	b4	*	*	-	-	-	-	-	-
	b5	*	*	-	-	-	-	*	-
	b6	*	*	-	-	-	-	*	-
c	c1	*	*	*	*	*	-	-	-
	c2	-	*	*	*	*	-	-	-
	c3	-	*	*	*	*	-	*	-
	c4	-	*	*	*	*	-	-	-
	c5	-	*	*	*	*	-	-	-
d	d1	-	-	-	*	*	-	-	-
	d2	-	-	-	*	*	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	-
	a2	*	*	-	-	*	*	*	-
	a3	*	*	-	-	*	*	*	-
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	-
b	b1	*	*	-	*	*	*	*	*
	b2	*	*	-	*	*	*	*	*
	b3	*	*	-	*	*	*	*	-
	b4	*	*	-	*	*	*	*	-
	b5	*	*	-	*	*	*	*	-
	b6	*	*	-	*	*	*	*	*
c	c1	-	*	-	*	-	-	*	-
	c2	-	*	-	*	-	-	*	-
	c3	-	*	-	*	-	-	*	-
	c4	-	*	-	*	-	-	*	-
	c5	-	*	-	*	-	-	-	-
d	d1	-	-	-	*	-	-	-	-
	d2	-	-	-	*	-	-	-	-

Course Coordinator: Prof. dr. Mona Darhous

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

Course Specifications
General Medicine
SGS 411

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 4th Year / 7th semester

A- Basic Information

Course Title	Internal Medicine & Skin and Andrology
Code	SGS 411
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS302,373

B- Professional Information

1. Overall Aims of Course

1. To support acquisition of knowledge and understanding of health and its promotion, and of disease , its prevention and management , in the context of patient with dental problem
2. To enable the student to acquire and become proficient in basic clinical symptoms and signs such as obtaining a patient's history , pulse , blood pressure and other basic signs.
3. To enable the students to acquire and demonstrate attitude necessary for the achievement of high standards of medical practice , both in relation to the provision of care of individuals and populations and to his or her personal development including a lifelong commitment to continuing medical education
4. To introduce concepts of disease of the skin and venereal disease of interest to the dental field.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Discuss the common Medical problems presenting to doctors in patients with dental problems.
- a2- State the clinical manifestations of common medical disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis .
- a3- Identify the pathogenesis of congenital and acquired syphilis
- a4- Clarify the clinical picture of congenital and acquired syphilis
- a5- Illustrate the proper diagnosis of congenital and acquired syphilis

b) Intellectual Skills:

- b1- Analyze symptoms & signs and construct a differential diagnosis for common presenting complaints
- b2- Evaluate the precaution when dealing with patients with HIV infection
- b3- Describe the pathogenesis and clinical picture of oral ulcers
- b4- Recognize the treatment plan of oral ulcers
 - ◆ Describe the pathogenesis and clinical picture of oral candidiasis
 - ◆ Differentiate between pemphigus pemphigoid
- b5- Clarify the clinical picture of pemphigus pemphigoid
- b6- Identify proper treatment plan

c) Professional and Practical Skills:

- c1- Take history relative to the clinical context .
- c2- Demonstrate physical examination .
- c3- Recognize urgent life-threatening conditions

d) General and transferable skills

- d1-Work effectively in groups.
- d2- Exercise leadership when appropriate.
- d3-Act responsibly in personal and professional relationships.
- d4-Take responsibility for their own learning and continuing personal and professional development.
- d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Week	TOPIC
1	Cardio vascular topics
2	Cardio vascular topics
3	topics Cardio vascular topics
4	Reapiratory topics
5	Reapiratory topics
6	Reapiratory topics
7	GIT & hepatology
8	GIT & hepatology
9	GIT & hepatology
10	Neurology topics
11	Neurology topics
12	Neurology topics
13	Revision

4. Teaching and Learning Methods

- 4-1. Illustrated Lectures : (ILOs : 1,2)
- 4-2. Large group planery sessions in lecture theaters are timetabled , 3 hours weekly .
- 4-3 Clinical Rounds : (ILOs : 3,4,5,6,7)
- 4-4. Tutors demonstrate the practical clinical skills (clinical history and examination of patients) for 2 hours daily for 8 weeks .

5. Student Assessment Methods

- 5-1. Attendance criteria to assess
- 5-2. Written examination to assess knowledge & understanding
- 5-3. clinical exam to assess clinical skills
- 5-4. Oral exam to assess all skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course Notes
- 6-2. Essential Books (Text Books)
 - ◆ Davidson's Principles and Practice of Medicine.
 - ◆ Clinical Medicine Kummar and Clark.
 - ◆ Hutchison's Clinical Methods.
 - ◆ Clinical Examination Macleod , Munro
- 6-3. Recommended Books
 - ◆ A Guide to physical examination , Barbara Bates.
 - ◆ Handout of lectures.
 - ◆ National books approved by the Internal Medicine Council.
 - ◆ CDs and floppy disks in the electronic library.
- 6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture hall.
 - ◆ Rooms for small groups teaching
 - ◆ Black and White Boards
 - ◆ Audio visual aids (data show overhead slide projector ...etc)
 - ◆ Beds and clinical facilities of Future university Teaching hospital
 - ◆ Students' Clinic at the 3rd floor of the old building (work in the clinic is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same clinics .
 - ◆ Library
 - ◆ Located at the 2nd floor of the dental school.
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓	✓	✓					
	a2	✓	✓	✓					
	a3	✓	✓	✓					
	a4	✓	✓	✓					
	a5	✓	✓	✓					
b	b1	✓	✓	✓					
	b2	✓	✓	✓					
	b3	✓	✓	✓					
	b4	✓	✓	✓					
	b5	✓	✓	✓					
	b6	✓	✓	✓					
c	c1	✓	✓	✓					
	c2	✓	✓	✓					
	c3	✓	✓	✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						
	d5		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓		✓					
	a2	✓	✓		✓					
	a3	✓	✓		✓					
	a4	✓	✓		✓					
	a5	✓	✓		✓					
b	b1	✓	✓		✓					
	b2	✓	✓		✓					
	b3	✓	✓		✓					
	b4	✓	✓		✓					
	b5	✓	✓		✓					
	b6	✓	✓		✓					
c	c1	✓	✓		✓					
	c2	✓	✓		✓					
	c3	✓	✓		✓					
d	d1									
	d2									
	d3									
	d4									
	d5									

Course Coordinator : Prof. Noran Elgandor

Head of Department : Prof. Nagwa Roshdy

Date: / /

Course Specifications
General Medicine
SGS 412

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department(s) offering the program: Faculty of Oral and Dental Medicine

Department offering the course: supplementary science

Academic Year / Level: 4th Year / 8th semester

A- Basic Information

Course Title	Internal Medicine & Skin and Andrology
Code	SGS 412
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS411

B- Professional Information

1. **Overall Aims of Course**

1. To support acquisition of knowledge and understanding of health and its promotion, and of disease , its prevention and management , in the context of patient with dental problem
2. To enable the student to acquire and become proficient in basic clinical symptoms and signs such as obtaining a patient's history , pulse , blood pressure and other basic signs.
3. To enable the students to acquire and demonstrate attitude necessary for the achievement of high standards of medical practice , both in relation to the provision of care of individuals and populations and to his or her personal development including a lifelong commitment to continuing medical education
4. To introduce concepts of disease of the skin and venereal disease of interest to the dental field.

2. **Intended Learning Outcomes of Course(ILOs)**

a) **Knowledge and understanding :**

- a1- Discuss the common Medical problems presenting to doctors in patients with dental problems.
- a2- State the clinical manifestations of common medical disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis .
- a3- Identify the pathogenesis of congenital and acquired syphilis
- a4- Clarify the clinical picture of congenital and acquired syphilis
- a5- Illustrate the proper diagnosis of congenital and acquired syphilis

b) **Intellectual Skills:**

- b1- Analyze symptoms & signs and construct a differential diagnosis for

common presenting complaints

b2- Evaluate the precaution when dealing with patients with HIV infection

b3- Describe the pathogenesis and clinical picture of oral ulcers

b4- Recognize the treatment plan of oral ulcers

◆ Describe the pathogenesis and clinical picture of oral candidiasis

◆ Differentiate between pemphigus pemphigoid

b5- Clarify the clinical picture of pemphigus pemphigoid

b6- Identify proper treatment plan

c) Professional and Practical Skills:

c1- Take history relative to the clinical context .

c2- Demonstrate physical examination .

c3- Recognize urgent life-threatening conditions

d) General and transferable skills

d1-Work effectively in groups

d2- Exercise leadership when appropriate.

d3-Act responsibly in personal and professional relationships.

d4-Take responsibility for their own learning and continuing personal and professional development.

d5-Act ethically and consistently with high moral standards in personal and public forums.

3. Course Contents:

Week	TOPIC
1	Hematology topics
2	Hematology topics
3	Hematology topics
4	Endocrinology topics
5	Endocrinology topics
6	Endocrinology topics
7	Infections topics
8	Infections topics
9	Infections topics
10	Skin & andrology
11	Skin & andrology
12	Skin & andrology
13	Revision

4. Teaching and Learning Methods

4-1. Illustrated Lectures : (ILOs : 1,2)

4-2. Large group planery sessions in lecture theaters are timetabled , 3 hours weekly .

4-3 Clinical Rounds : (ILOs : 3,4,5,6,7)

4-4. Tutors demonstrate the practical clinical skills (clinical history and examination of patients) for 2 hours daily for 8 weeks .

5. Student Assessment Methods

5-1. Attendance criteria to assess

5-2. Written examination to assess knowledge & understanding

- 5-3. clinical exam to assess clinical skills
- 5-4. Oral exam to assess all skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course Notes
- 6-2. Essential Books (Text Books)
 - ◆ Davidson's Principles and Practice of Medicine.
 - ◆ Clinical Medicine Kummar and Clark.
 - ◆ Hutchison's Clinical Methods.
 - ◆ Clinical Examination Macleod , Munro
- 6-3. Recommended Books
 - ◆ A Guide to physical examination , Barbara Bates.
 - ◆ Handout of lectures.
 - ◆ National books approved by the Internal Medicine Council.
 - ◆ CDs and floppy disks in the electronic library.
- 6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture hall.
- ◆ Rooms for small groups teaching
- ◆ Black and White Boards
- ◆ Audio visual aids (data show overhead slide projector ...etc)
- ◆ Beds and clinical facilities of Future university Teaching hospital
- ◆ Students' Clinic at the 3rd floor of the old building (work in the clinic is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same clinics .
- ◆ Library
- ◆ Located at the 2nd floor of the dental school.

Teaching and learning methods:

Code	Teaching and learning Method
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4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓	✓	✓					
	a2	✓	✓	✓					
	a3	✓	✓	✓					
	a4	✓	✓	✓					
	a5	✓	✓	✓					
b	b1	✓	✓	✓					
	b2	✓	✓	✓					
	b3	✓	✓	✓					
	b4	✓	✓	✓					
	b5	✓	✓	✓					
	b6	✓	✓	✓					
c	c1	✓	✓	✓					
	c2	✓	✓	✓					
	c3	✓	✓	✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						
	d5		✓						

Assessment methods:

Code	Assessment Method
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5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
a	a1	✓	✓		✓					
	a2	✓	✓		✓					
	a3	✓	✓		✓					
	a4	✓	✓		✓					
	a5	✓	✓		✓					
b	b1	✓	✓		✓					
	b2	✓	✓		✓					
	b3	✓	✓		✓					
	b4	✓	✓		✓					
	b5	✓	✓		✓					
	b6	✓	✓		✓					
c	c1	✓	✓		✓					
	c2	✓	✓		✓					
	c3	✓	✓		✓					
d	d1									
	d2									
	d3									
	d4									
	d5									

Course Coordinator : Prof. Noran Elgandor

Head of Department : Prof. Nagwa Roshdy

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
General Surgery & Ophthalmology & E.N.T
SGS 421

Course Specifications

- Program on which the course is given: Bachelor of Dental medicine and Surgery.
- Department offering the program: Faculty of Oral and Dental Medicine.
- Department offering the course; Department of supplementary sciences.
- Academic Year / Level: 4th Year / 7th semester.

A- Basic Information

Course Title	General Surgery & Ophthalmology
Code	SGS 421
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-Request: SGS272, 302,373

B- Professional Information

1. Overall Aims of Course

1. Introduce the dental students to the basic principles of general surgery and to educate them the surgical concepts related to their specialty.
2. To understand the concept, types, and complications of wounds as well as the sound rules for wound healing and its management.
3. Study relationship between the dental work as and circulatory disturbances as shock, cardiac arrest up to complete circulatory failure.
4. Study the relationship between dental work and bleeding; including the different types of hemorrhage and different causes of bleeding disorders.
5. To study the relationship between dental work and surgical infections as well as the use of antibiotics in surgery.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding:

- a1- Discuss signs and symptoms of common general surgical conditions of interest to the dental field.
- a2- Point out the problem of general systemic disturbances in surgery that can occur in the dental clinic.
- a3- Describe the patients' systemic diseases that may affect the outcome of dental procedures and their management.
- a4- Identify and manage different types of wounds, and patterns of wound healing as well as avoidance of its complications.
- a5- Recognize causes, prevention, assessment and treatment of excessive bleeding during dental treatment.
- a6-List indications for blood transfusion and discuss the management of reactions of incompatible blood transfusion.
- a7-Discuss the different types of antibiotics and their spectrum of microorganisms.
- a8- Recognize etiology, pathogenesis, early detection and management of surgical infection.

b) Intellectual Skills:

- b1-Interpret the patient's symptoms and signs in terms of its diagnostic significance.
- b2- Outline the plane of investigations needed for proper diagnosis of the patient.
- b3-Formulate the plane of management after integration of clinical findings and investigations to achieve meticulous diagnosis.
- b4-Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.

c) Professional and Practical Skills:

- c1- Apply the art of surgical history taking from the patient.
- c2- Perform general and local examination.
- c3- Identify normal anatomical findings and landmarks.
- c4- Identify surgical emergencies and life threatening situations.
- c5- Perform simple bed side diagnostic tests as aspiration and trans-illumination.

c6- Identify different radiological features of surgical diseases.

c7- Write a safe prescription for head and neck surgical disorders.

d) General and transferable skills

d1-Conduct reliable and responsible behaviors.

d2-Respect the patient's well, privacy, and dignity.

d3-Self-evaluate and discuss professional mistakes in an honest way.

d4-Adopt the policy of continuous medical education.

3. Course Contents:

Week	TOPIC
1	Wounds
2	Wound healing
3	Hemorrhage
4	Surgical hemostasis
5	Bleeding disorders
6	Blood grouping
7	Blood transfusion
8	Cardiac Arrest
9	Peripheral perfusion and oxygenation
10	Shock
11	Surgical infections
12	Antibiotics in surgery
13	Revision

4. Teaching and Learning Methods

- ❖ **Lectures;** for surgical knowledge and subject explanation and demonstration.
- ❖ **Classes;** for case discussion, clinical participation of students, discussing case scenarios, and problem solving.
- ❖ **Clinical data show slide** case demonstration and discussion.
- ❖ **X-ray** sessions for different disease radiological demonstrations.

5. Student Assessment Methods

- 5-1. Written Final exam to assess knowledge and understanding.
- 5-2. Oral exam: to assess knowledge and understanding, intellectual and general skills
- 5-3. Practical (clinical case scenario) exam : to assess practical and intellectual skills
other assignments /
- 5-4. class work and case study to assess student ability to diagnose cases

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Assignment by a research in one of the studied topics

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Class work	20	%
Total	100	%

Any formative only assessments

6. List of References

6-1. Course notes;

- The department notes and printed lectures.
- The PowerPoint lectures and case discussions.

7. Facilities Required for Teaching and Learning

- ◆ Lecture room.
 - ◆ Facilities used for teaching this course include: Lecture hall (at the 3rd floor end of the corridor in old building)
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
b	b1	✓							
	b2	✓							
	b3	✓							
	b4	✓							
c	c1			✓					
	c2			✓					
	c3			✓					
	c4			✓					
	c5			✓					
	c6			✓					
	c7			✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓					✓		
	a2	✓					✓		
	a3	✓					✓		
	a4	✓					✓		
	a5	✓					✓		
	a6	✓					✓		
	a7	✓					✓		
	a8	✓					✓		
b	b1	✓					✓		
	b2	✓					✓		
	b3	✓					✓		
	b4	✓					✓		
c	c1				✓		✓		
	c2				✓		✓		
	c3				✓		✓		
	c4				✓		✓		
	c5				✓		✓		
	c6				✓		✓		
	c7				✓		✓		
d	d1				✓		✓		
	d2				✓		✓		
	d3				✓		✓		
	d4				✓		✓		

Course Coordinator: Prof. Usama Saeed Imam Abdulaal

Head of Department: Prof. Nagwa Roshdy

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications

General Surgery & Ophthalmology & E.N.T
SGS 422

Course Specifications

- Program on which the course is given: Bachelor of Dental medicine and Surgery.
- Department offering the program: Faculty of Oral and Dental Medicine.
- Department offering the course; Department of Supplementary sciences.
- Academic Year / Level: 4th year / 8th semester.

A- Basic Information

Course Title	General Surgery & Ophthalmology
Code	SGS422
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

Pre-Request: SGS421

B- Professional Information

1. Overall Aims of Course

- Introduce the dental students to the basic principles of general surgery and to educate them the surgical concepts related to their specialty.
- To provide the student with the basic surgical knowledge of head, neck, and facio-maxillary surgery.
- To enable the student to detect malignant disorders at an early stage.
- To provide the student with the professional surgical attitude, as well as the
- proper application of diagnostic and therapeutic surgical rules.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding:

- a1-Describe the surgical anatomy and physiology of head and neck regions.
- a2-Recognize the common surgical head and neck diseases and its etiology, pathology, clinical features, and complications.

a3-Describe and apply the management rules of common head and neck surgical disorders.

a4-Apply the preventive and screening protocols for common and serious disorders.

a5-Recognize basic principles of simple surgical operations and its postoperative management.

a6-Identify signs and symptoms of common surgical conditions of interest to the dental field.

a7-Describe the emergency situations in maxillofacial injuries and its management.

a8-Relate the dental work with other clean surgeries as ophthalmic operations emphasizing the dental septic foci; their diagnosis, prevention and management.

b) Intellectual Skills:

b1-Interpret the patient's symptoms and signs in terms of its diagnostic significance.

b2-Outline the plan of investigations needed for proper diagnosis of the patient.

b3-Formulate the plan of management after integration of clinical findings and investigations to achieve meticulous diagnosis.

b4-Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.

c) Professional and Practical Skills:

c1-Apply the art of surgical history taking from the patient.

c2-Skillful performance of general and local examination.

c3-Identification of normal anatomical findings and landmarks.

c4-Identify surgical emergencies and life threatening situations.

c5-Perform simple bed side diagnostic tests as aspiration and trans-illumination.

c6-Identify different radiological features of surgical diseases.

c7-Write a safe prescription for head and neck surgical disorders.

d) General and transferable skills

d1-Conduct reliable and responsible behaviors.

d2-Respect the patient's well, privacy, and dignity.

d3-Self-evaluate and discuss professional mistakes in an honest way.

d4-Adopt the policy of continuous medical education.

3. Course Contents:

Ser.	TOPIC
1	Face, lips, and palate diseases and surgery.
2	Tongue diseases and surgery.
3	Salivary glands Diseases and surgery.
4	Gum and floor of mouth surgery.
5	Swellings and tumors of the Jaws.
6	Epulides and Odontomes surgery.
7	Accident and emergency surgery (Maxillofacial injuries)
8	Ear, Nose and Maxillary diseases and surgery
9	Eye diseases and surgery.
10	Cervical lymph nodes, lymphadenopathy and surgery.
11	Congenital anomalies of the head and neck
12	Trauma and injuries of the head and neck
13	Revision

4. Teaching and Learning Methods

- ❖ **Lectures;** for surgical knowledge and subject explanation and demonstration.
- ❖ **Classes;** for case discussion, clinical participation of students, discussing case scenarios, and problem solving.
- ❖ **Clinical data show slide** case demonstration and discussion.
- ❖ **X-ray** sessions for different disease radiological demonstrations.

5. Student Assessment Methods

- 5-1. Written Final exam to assess knowledge and understanding.
- 5-2. Oral exam: to assess knowledge and understanding, intellectual and general skills
- 5-3. Practical (clinical case scenario) exam : to assess practical and intellectual skills
other assignments /
- 5-4. class work and case study to assess student ability to diagnose cases

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Assignment by a research in one of the studied topics
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Oral Examination	10	%
Clinical Examination	15	%
Final Written Examination	25	%
Class work	20	%
Total	100	%

Any formative only assessments

6. List of References

6-1. Course notes;

- The department notes and printed lectures.
- The PowerPoint lectures and case discussions.

7. Facilities Required for Teaching and Learning

- ◆ Lecture room.
 - ◆ Facilities used for teaching this course include: Lecture hall (at the 3rd floor end of the corridor in old building)
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2	✓							
	a3	✓							
	a4	✓							
	a5	✓							
	a6	✓							
	a7	✓							
	a8	✓							
b	b1	✓							
	b2	✓							
	b3	✓							
	b4	✓							
c	c1			✓					
	c2			✓					
	c3			✓					
	c4			✓					
	c5			✓					
	c6			✓					
	c7			✓					
d	d1		✓						
	d2		✓						
	d3		✓						
	d4		✓						

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓					✓		
	a2	✓					✓		
	a3	✓					✓		
	a4	✓					✓		
	a5	✓					✓		
	a6	✓					✓		
	a7	✓					✓		
	a8	✓					✓		
b	b1	✓					✓		
	b2	✓					✓		
	b3	✓					✓		
	b4	✓					✓		
c	c1				✓		✓		
	c2				✓		✓		
	c3				✓		✓		
	c4				✓		✓		
	c5				✓		✓		
	c6				✓		✓		
	c7				✓		✓		
d	d1				✓		✓		
	d2				✓		✓		
	d3				✓		✓		
	d4				✓		✓		

Course Coordinator: Prof. Usama Saeed Imam Abdulaal

Head of Department: Prof. Nagwa Roshdy

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Endodontics Technology
CONS 433**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Endodontics Departement
Academic Year /Level:4thyear / 7th semester

A- Basic Information

Course Title	of Endodontics
Code	Cons 433
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

B- Professional Information

1. Overall Aims of Course

1. understand the full scope of endodontics
2. Be familiar with pulp space macroscopic anatomy, and variations of root canal system.
3. Be familiar with instruments and materials used in conventional endodontic treatment.
4. Develop sound technical excellence in performing coronal cavity preparation and intra-radicular cleaning and shaping in uncomplicated signal and multi-canaled extracted human permanent teeth using low speed motors.
5. Be aware of procedural errors during root canal treatment, determine the effect on their prognosis, and select appropriate procedure for their correction.
6. Develop and acquire general skills and attitude including : communication skills (student-staff member and with other healthcare professionals), life-long learning, ethical behavior and the profession's wider responsibility towards the community as a whole.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course students should be able to:

- a1- Define the pulp space and list and describe its major components.
- a2- List for each tooth type , the average length , number of roots , most common root curvatures and the most frequent variations in root and pulp anatomy.
- a3- List and describe the basic set of instrument appropriate for these procedures : control access preparation , tooth length determination and radicular preparation
- a4- Explain the basis for standardization of hand and rotary operated instruments
- a5- Describe the action, design and professional use hand and rotary instruments used for cleaning and shaping the root canal, and recognize predisposing factors for instrument fracture.

- a6- Describe the relationships between anatomic apex , radiographic apex and the actual location of the apical foramen
- a7- Recognize why many root curvatures and extra canals are not apparent on standard radiographs and suggest methods revealing them.
- a8- Describe objectives for cleaning and shaping of root canal
- a9- Describe techniques for standardized , flaring (step back and / or crown down) preparations, and determine the appropriate size of the master cone.
- a10- List ideal irrigant properties, identify which irrigant meets most of these criteria and state needles gauges and types used and techniques that provide maximal and safe irrigant effect.
- a11- Discuss the role of chelating and decalcifying agents.
- a12- Describe the purpose of obturation, reasons why inadequate obturation may result in treatment failure and recognize the technical and clinical criteria that determine when to obturate and describe canal preparation for obturation and the significance of smear layer.
- a13- List requirements, indications, mixing and placing techniques and available types of sealers.
- a14- Discuss the technical and radiographic criteria for evaluating the quality of obturation.

b) Intellectual Skills:

By the end of the course students should:

- B1 - Have adequate knowledge of the outline forms of anteriors, premolars and molar extracted human teeth.
- B2 – Have the skill to prepare an access cavity on anterior and premolar extracted teeth and adjust the working length as well as verify the master cone and evaluate postoperative obturation.
- B3- Select and apply the appropriate instrumentation and obturation materials for simple cases.

c) Professional and Practical Skills:

By the end of the course students should be able to

- C1-Draw and label the most common internal and external anatomy of each tooth in the following planes : sagittal section of mesiodistal and faciolingual planes , and cross section through the cervical , middle and apical thirds of the root.
- C2-Draw and label the outline form of the access preparation for all teeth and show the location of each orifice relative to the occlusal or lingual surface.
- C3- Draw and label diagrams of the steps involved for complete access preparations on various teeth.
- C4-Draw and label errors that might occur during access preparations
- C5-Perform with excellence coronal access cavities in anterior and premolar extracted permanent teeth.
- C6-Draw and label diagram of both step back preparation and crown down techniques.
- C7-Draw and label errors that might occur during radicular preparation.
- C8-Perform the step by step technique for obtaining the working lengths using Ingle's method.
- C9-Choose the appropriate instruments and perform with excellence step back preparation technique in anterior and extracted premolar teeth
- C10-Practice the proper use of root canal instruments and their file motions.
- C11- choose and use the appropriate irrigating solution , needles and techniques that provide maximal and safe irrigant effect.
- C12- Draw and label diagram of lateral compaction technique.
- C13- Draw and label errors that might occur during obturation.
- C14-Choose the appropriate instruments and perform with excellence preparation of the canal for obturation in anterior and premolar extracted permanent teeth.

C14- Apply the technical skills of coronal access preparation and working length determination radicular preparation on extracted anterior and premolar permanent teeth.

d) General and transferable skills

-By the end of the course , students should be able to:

d1- Communicate effectively and ethically with members of the dental staff.

3. Course Contents:

Ser.	TOPIC
1	Scope of endodontics
2	Pulp space morphology and macroscopic anatomy
3	Endodontic access cavity preparation
4	Endodontic instruments
5	Working length determination
6	Obturation

Topics and Tentative Schedule:

Weeks	Topics
1st	Introduction to Endodontic and scope of endodontics
2nd	Macroscopic Anatomy and Access cavity preparation
3rd	Macroscopic Anatomy and Access cavity preparation
4th	Endodontic Instruments
5th	Endodontic Instruments
6th	Endodontic Instruments
7th	1 st midterm
8th	Cleaning and shaping of the root canal system
9th	Cleaning and shaping of the root canal system
10th	2 nd midterm
11th	Obturation of the root canal system
12th	Obturation of the root canal system
13th	Obturation of the root canal system

4. Teaching and Learning Methods

4-1. Lectures

4-2. Small group (Practical and clinical training)

4-3. Demonstrations

5. Student Assessment Methods

5-1. Written examination (short questions , multiple choice , quizzes , assignments) to assess knowledge and understanding.

5-2. Practical exam to assess clinical skills

5-3. Log book , OSPE , attendance , participation to assess intellectual skills & general and transferable skills

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Mid Term practical exam

Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%

6. List of References

6-1. Course notes

Department books available for students to purchase

6-2. Essential Books (Text Books)

- ◆ Endodontics by Ingle. (library)
- ◆ Pathways of the pulp by Stephan Cohen and Richard Burnes (library)
- ◆ Principles and practice of endodontics by Torabinejad (library)

6-3. Recommended books

6-4. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- ◆ Lecture Hall at ground and first floor of the dental faculty , writing board is available , overhead slide projector , data show is available with prior arrangement.
- ◆ Students laboratories at ground and first floor of the building (work in the laboratories is scheduled in accordance with the operative and fixed prosthodontics departments who also work in the same laboratories.
- ◆ Library:

Located in administration building.

Teaching Plan:

ILOs		Lectures	Small group discussion	Demonstration	Practical (Laboratory) Training and Requirements	E-Learning	PBL
A	A1	√					
	A2	√					
	A3	√	√	√			
	A4	√		√			
	A5	√		√	√		
	A6	√	√	√	√		
	A7	√		√			
	A8	√	√	√	√		
	A9	√	√	√	√		
	A10	√	√	√	√		
	A11	√	√				
	A12	√	√				
	A13	√					
	A14	√	√				
B	B1		√	√			
	B2		√	√	√		
	B3		√	√	√		
C	C1	√	√	√	√		
	C2	√	√	√	√		
	C3	√	√	√	√		
	C4	√	√	√	√		
	C5	√	√	√	√		
	C6	√	√	√	√		
	C7	√	√				
	C8	√	√	√	√		
	C9	√	√	√	√		
	C10	√	√	√	√		
	C11	√	√	√	√		
	C12	√	√	√	√		
	C13	√	√				
	C14	√	√				
	C15	√	√	√	√		
D	D1	√	√		√		

Assessment methods and plans:

ILOs		Written examination	Oral examination	Practical examination	Assignment	Quizzes (continuous assessment)
A	A1	√	√	√	√	√
	A2	√	√		√	√
	A3	√	√	√		√
	A4	√	√		√	√
	A5	√	√		√	√
	A6	√	√	√		√
	A7	√	√			√
	A8	√	√			√
	A9	√	√	√	√	√
	A10	√	√	√		√
	A11	√	√			√
	A12	√	√			√
	A13	√	√			√
	A14	√	√			√
B	B1	√	√	√	√	√
	B2	√	√	√	√	√
	B3	√	√	√	√	√
C	C1	√	√	√		
	C2	√	√	√	√	√
	C3	√	√	√	√	
	C4	√	√	√	√	
	C5	√	√	√	√	
	C6	√	√	√	√	
	C7	√	√	√	√	
	C8	√	√	√	√	
	C9	√	√	√	√	
	C10	√	√	√	√	
	C11	√	√	√	√	√
	C12	√	√	√	√	
	C13	√	√	√	√	√
	C14	√	√	√	√	√
	C15	√	√	√	√	√
D	D1		√			

Course Coordinator : Prof. Medhat Kataya

Head of Department :

Date: / /

Course Specifications
Endodontics Technology
CONS 434

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Endodontics Department
Academic Year /Level:4th year / 8th semester

A- Basic Information

Course Title	Endodontics Department
Code	Cons 434
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Requisite: CONS433

B- Professional Information

1. Overall Aims of Course

- 1) To make the students understand the possible etiology of disease and conditions involving the pulpal and periradicular tissues in permanent teeth.
 - 2) To make the students familiar with disease and conditions involving the pulpal and periradicular tissues in permanent teeth
 - 3) Be aware of procedural errors during root canal treatment, determine the effect on their prognosis, and select appropriate procedure for their correction.
 - 4) Be aware of the recent advances in instruments
 - 5) Be familiar with the most common emergencies.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

by the end of the course students should be able to:

- A1- Identify etiologic factors causing pulp inflammation and spread of pulpal inflammation into the periradicular tissue.
- A2- Discuss the purpose of and procedures for extraoral and intraoral examination of soft and hard tissues including clinical pulp testing, percussion, palpation test cavity, selective anesthesia, and transillumination tests.
- A3- Describe radiographic finding that may indicate pulpal or periapical pathosis
- A4- Explain how referred and spreading pain may lead to misdiagnosis
- A5- Describe portal of entry of microorganisms to the pulp and periradicular tissue

A6- List specific and non specific mediators of pulp inflammation

A7- List and describe the basic set of instruments appropriate for these procedures: control access preparation, diagnosis, tooth length determination, radicular preparation, and obturation

A8- describe the etiology and the difference between pulpal and periapical diseases and their different treatment modalities

A9- Recognize factors that will predispose to instrument fracture example visible changes and number of usage

A10- List coronal and radicular preparation errors and describe how to avoid and correct if possible

A11- Identify causes of emergencies as they occur before treatment, between appointments (interappointment flare-up), and after obturation.

A12- Describe and outline a sequential approach to different endodontic emergencies.

A13- Outline a system of subjective and objective examinations and radiographic finding to identify the source of emergency pain and the pulpal or periradicular diagnosis.

A14- discuss recent advances in instrument

b) Intellectual Skills:

By the end of the course students should be able to:

B1- select and apply the appropriate instrumentation, obturation materials for extracted teeth.

B2- Differentiate between dentinal pain and pulpal

B3- distinguish the difference between pain of odontogenic and non odontogenic origin.

B4- differentiate between pulpal and periapical pathosis, using appropriate terminology according to the diagnostic findings.

B5- correlate between subjective symptoms and objective findings

c) Professional and Practical Skills:

by the end of the course students should be able to

C1- interpret radiographs for extracted teeth and determine adjusted working length, verify master cone fit and evaluate postoperative obturation.

C2- Perform coronal access cavities in anterior , premolar and molar extracted permanent teeth

C3-Choose the appropriate instruments and perform with excellence step back preparation technique in anterior and extracted premolar teeth

C4- Practice the proper use of root canal instruments and their file motions and judge any existing errors.

C5- Choose the appropriate instruments and perform preparation of the canal for obturation, master cone fitting , and sealer mixing lateral condensation technique , in anterior and premolar extracted permanent teeth.

e) **General and transferable skills**

by the end of the course , students should be able to perform:

D1- apply contemporary technologies to enhance and expand professional practice

D2- Recognize the importance of life long learning

3. Course Contents:

Ser.	TOPIC
1	Mishaps
2	Differential diagnosis of pulp diseases
3	Pulp and periapical disease
4	Emergency
5	Recent advances in instruments

Topics and Tentative Schedule:

Weeks	Topics
1st	Mishaps
2nd	Mishaps
3rd	Diagnosis of pulp and periapical disease
4th	Diagnosis of pulp and periapical disease
5th	1st midterm
6th	Pulp and periapical disease
7th	Pulp and periapical disease
8th	Pulp and periapical disease
9th	Emergency
10th	Emergency
11th	2 nd midterm
12th	Recent advances in instruments
	Recent advances in instruments

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Small group (Practical training)
- 4-3. Demonstrations
- 4-4. practical (laboratory) training and requirements

5. Student Assessment Methods

- 5-1. Written examination (short questions , multiple choice) to assess knowledge and understanding.
- 5-2. oral examination
- 5-3. Practical examination to assess clinical skills
- 5-4. quizzes (continuous assessment)
- 5-5. Log book, attendance, participation to assess intellectual skills & general and transferable skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
 Assessment 2: 2nd Mid Term Exam
 Assessment 3: classwork (practical quizez, attendance, requirements)
 Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Classwork assessment	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course notes
 Department notes available at the copy center for students to purchase
- 6-2. Essential Books (Text Books)
 Textbook of endodontics by Nisha Garg. Amit Garg
- 6-3. recommended books:
 - ◆ Endodontics by Ingle.
 - ◆ Pathways of the pulp by Stephan Cohen and Richard Burnes 11th edition
 - ◆ Principles and practice of endodontics by Torabinejad
- 6-4. Websites:
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1601-1546/issues](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1601-1546/issues)

7. Facilities Required for Teaching and Learning

- ◆ Lecture Halls at the 2nd and 3rd floor of the dental faculty , writing board is available , overhead slide projector , data show is available with prior arrangement.
- ◆ Students laboratory in the dental faculty in the 1st and 2nd floor comprising 24 units and

- ◆ Library:
Located in the admissions building.

Teaching Plan and learning methods:

ILOs		Lectures	Small group discussion	Demonstration	Practical (Laboratory) Training and Requirements
a	a1	√			
	a2	√			
	a3	√			
	a4	√			
	a5	√			
	a6	√			
	a7	√	√	√	√
	a8	√			
	a9	√	√	√	√
	a10	√	√	√	√
	a11	√			
	a12	√			
	a13	√			
	a14	√	√	√	√
b	b1	√	√	√	√
	b2	√	√		
	b3	√	√		
	b4	√	√		
	b5	√	√		
c	c1		√	√	√
	c2		√	√	√
	c3		√	√	√
	c4		√	√	√
	c5		√	√	√
d	d1	√	√	√	√
	d2	√	√	√	√

Assessment Plan:

ILOs		Written examination	Oral examination	Practical examination	Quizzes (continuous assessment)	Log book
a	a1	√	√		√	√
	a2	√	√		√	√
	a3	√	√		√	√
	a4	√	√		√	√
	a5	√	√		√	√
	a6	√	√		√	√
	a7	√	√	√	√	√
	a8	√	√		√	√
	a9	√	√		√	√
	a10	√	√	√	√	√
	a11	√	√		√	√
	a12	√	√		√	√
	a13	√	√		√	√
	a14	√	√		√	√
b	b1			√	√	√
	b2	√	√		√	
	b3	√	√		√	
	b4	√	√		√	
	b5	√	√		√	
c	c1			√	√	
	c2			√	√	
	c3			√	√	
	c4			√	√	
	c5			√	√	
d	d1		√			
	d2		√			

Course Coordinator : Prof. Medhat Kataya

Head of Department : Prof. Medhat Kataya

Date: / /

Course Specifications
Clinical Restorative
CONS 413

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Operative Dentistry

Academic 4th Year /7th Level

A- Basic Information

Course Title	Clinical Restorative
Code	Cons 413
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: CONS312

B- Professional Information

1. Overall Aims of Course

- This course is to present the general information necessary to understand the fundamentals of the clinical course of operative dentistry:
 - a- To enable the student to understand and apply the basic clinical principles of operative dentistry that constitutes the main demands of the daily practice which includes different patients management during and after the treatment (patient reception , examination , diagnosis , treatment planning, infection control, moisture control and control of pain).
 - b- To enable the student to recognize the principles of caries control and management.
 - c- To enable the student to identify the available restorative material and their selection.
 - d- To enable the student to apply the gained information about the available restorative materials clinically

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding: by the end of the course the student should be able to:

- a1- Describe the appropriate patient position and identify the requirements which should be fulfilled regarding the operative positions.
- a2- Describe the principles of infection control and universal precaution techniques used in dental practice as well as recognize the importance of infection control techniques to the dentist and his/her staff and patients.
- a3- List the reasons and methods for moisture control.
- a4- Describe the rationale for using the rubber dam.

a5- Describe materials, techniques, and processes involved with management of deep carious lesions.

a6- Know about temporary restoration and when to use it.

a7- Understand health hazards that can develop in the operating room

b) Intellectual Skills: by the end of the course, the student should be able to:

b1- Analyze symptoms and signs, and construct a differential diagnosis for common presenting complaints.

b2- Formulate a differential, provisional, or definitive diagnosis by interpreting and correlating findings from the history and the patient interview, the clinical and radiographic findings, and other diagnostic tests and create a problem list.

b3- Develop properly sequenced and alternative treatment plans as appropriate to achieve patient satisfaction and that considers the patient's medical history and all the diagnostic data.

b4- Discuss the diagnosis and treatment options to obtain informed consent; and to modify the accepted plan based upon regular evaluation, unexpected situations, or special patient needs.

b5- Recognize urgent life-threatening conditions that may arise in the operating room.

c) Professional and Practical Skills: by the end of the course, the student should be able to:

c1- Perceive the patients and prepare the operating position and field accurately.

c2- Demonstrate removal of carious lesions and temporization of teeth

c3- Prepare simple and compound cavities.

c4- Restore simple and compound cavities with amalgam or composite restorations.

c5- Perform a comprehensive patient evaluation chart that collects patient history including medication, chief complaint, biological, behavioral, cultural and socioeconomic information needed to assess the patient's medical and oral condition.

c6- Perform isolation of the operating field.

c7- Demonstrate the proper placement and use of the rubber dam, clamps, gingival retractors, and frames to achieve field isolation.

d) General and transferable skills: by the end of the course, the student should be able to:

d1- Infection control.

d2: Chair position.

d3: Clinical ethics principles.

3. Course Contents:

Week	TOPIC
1	Patient Assessment and Examination
2	Diagnosis and Treatment Plan
3	Sterilization and Infection Control
4	Sterilization and Infection Control
5	Moisture Control
6	Managements of Deep Caries

7	Managements of Deep Caries
8	Esthetic Restoration of Posterior Teeth
9	Esthetic Restoration of Posterior Teeth
10	Control of Pain
11	Temporary Restoration
12	Health Hazards
13	Revision

4. Teaching and Learning Methods

- 4-1. Lectures with discussions
- 4-2. Clinical demonstration .

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Clinical examination to assess clinical, intellectual, and general skills.
- 5-3. Log book to assess clinical skills and practical requirements.
- 5-4. Oral examination to assess knowledge and understanding.

Assessment Schedule

- Assessment 1: Practical requirement of the logbook.
- Assessment 2:: midterm (written)
- Assessment 3: practical exam
- Assessment 4: Final written & oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Class work	20 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %

Total 100%

6. List of References

- 6-1. Course notes
- 6-2. Text book: “Contemporary Approach in Operative Dentistry”.

7. Facilities Required for Teaching and Learning

Facilities used for teaching this course include

- Lecture hall: In the main building of the faculty of oral and dental medicine .
- Black board and white board are available.
- Slide projector.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical Requirements
4-4	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3
a	a1	*	*	*
	a2	*	*	*
	a3	*	*	*
b	b1			*
	b2			*
	b3			*
c	c1		*	*
	c2		*	*
	c3		*	*
d	d1			*

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	*			*	
	a2	*	*	*		*
	a3	*	*	*		
b	b1		*	*		
	b2		*	*		
	b3		*	*		
c	c1			*		
	c2			*		
	c3			*		
d	d1			*		

Course Coordinator:

Dr: Rasha Hassan Afify

Head of Department :

Prof. Dr. Essam Abdel Hafez

**Course Specifications
Clinical Restorative
CONS 414**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Operative Dentistry
Academic 4thYear / 8thsemester

A- Basic Information

Course Title	Clinical Restorative
Code	Cons 414
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: CONS413

B- Professional Information

1. Overall Aims of Course

- the aim of this course is to present the general information necessary to understand the fundamentals of the clinical course of operative dentistry :
 - a- To enable the student to understand principles of caries control and management.
 - b- To enable the student to be familiar with the available restorative material and their selection.
 - c- To enable the student to apply the gained information about the available restorative materials clinically.
 - d- To enable the student to manage the deep carious lesions.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding by the end of the course the students should :

- a1- State the cause of pain during operative procedures and postoperatively
- a2- List the methods used for pain control and choose the appropriate method to control it during the operative procedures.
- a3- Understand the principles of caries control and management
- a4- Describe the contributing factors in the disease of caries and their interrelationship with tooth , saliva , diet and systemic factors
- a5- Describe the use of conservative intervention
- a6- Choose the appropriate method for controlling dental caries and point out the reasons
- a7- Describe Materials , techniques , and processes involved with management of deep carious lesion

a8- Categorize the material & their use in different cavity designs

a9- Apply the basics of the biological consideration

b) Intellectual Skills by the end of the course the students should:

b1- Analyze symptoms & signs and construct a differential diagnosis for common presenting complaints

b2- Distinguish the clinical aspects and classification of dental caries.

b3- Demonstrate the methods used to assess the patient caries risk

c) Professional and Practical Skills by the end of the course the students should :

c1- Demonstrate surgical removal of carious lesions and temporization of teeth

c2- Demonstrate the ability to prepare and restore simple and compound cavities with amalgam or composite.

C3- Recognize urgent life-threatening conditions

d) General and transferable skills

d1- Apply ethical principles to professional practice.

3. Course Contents:

Ser.	TOPIC
1	Selection of restorative material
2	Biological consideration
3	Post operative pain & hypersensitivity
4	Cariology

Week	Topic
1	Biological consideration (1)
2	Biological consideration (2)
3	Biological consideration (3)
4	Selection of restorative materials (1)
5	Selection of restorative materials (2)
6	1st Mid-Term Exam
7	Selection of restorative materials (3)
8	Post operative pain & hypersensitivity (1)
9	Post operative pain & hypersensitivity (2)
10	Post operative pain & hypersensitivity (3)
	SINAI LIBERATION DAY
11	2nd Mid-Term Exam

	LABOUR DAY
12	Clinical application of composite resin restoration
	Coptic Easter & Sham El-Nesseem Holiday
13	Cariology (1)
14	Cariology (2)
15	Revision
16	Final Exams
17	Final Exams

**Teaching
Learning**

4. and Methods

- 4-1. Lectures with discussions
- 4-2. Small group sessions.
- 4-3. clinical demonstration

5. Student Assessment Methods

- 5-1. Written to assess knowledge and understanding.
- 5-2. Clinical examination to assess clinical skills, intellectual and general skills.
- 5-3. Log book , to assess clinical skills.

Assessment Schedule

- Assessment 1: midterm (written)
- Assessment 2: practical exam
- Assessment 3: Final written & oral exam

Weighting of Assessments

Mid Term Examinations	30 %
Practical Requirement	20 %
Oral Examination	10 %
Final Practical Examination	15 %
Final Written Examination	25 %

Total 100%

6. List of References

- 6-1. Course notes
- Department notes

7. Facilities Required for Teaching and Learning

5. Facilities used for teaching this course include
6. Lecture hall
 - In the main building of the faculty of oral and dental medicine .
 - Black board and white board are available.
 - Overhead projectors.

- Slide projector.
-

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical Requirements
4-4	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√		√	√
	a2	√		√	√
	a3			√	
	a4	√			√
	a5	√		√	
	a6	√			√
	a7	√			√
	a8	√		√	√
	a9	√	√	√	√
	a10	√	√	√	√
	a11		√	√	
b	b1		√	√	
c	c1		√	√	
	c2		√	√	
	c3		√	√	
	c4		√	√	
d	d1	√	√	√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√			√	√
	a2	√			√	√
	a3	√			√	√
	a4	√			√	√
	a5	√			√	√
	a5	√			√	√
	a6	√			√	√
	a7	√			√	√
	a8	√			√	√
	a9	√			√	√
	a10	√			√	√
	a11	√		√	√	√
b	b1	√	√	√	√	
c	c1			√		
	c2			√		
	c3			√		
	c4	√	√	√	√	
d	d1	√	√	√	√	

Course Coordinator : Ass. P rof. Dr. Ahmed Hoshy.

Head of Department : Prof. DR. Essam Abdel Hafez.

Course Specifications for
Clinical Crowns & bridges
PROS 423

Course Specifications

Program(s) on which the course is given B.D.S
Department offering the course: Fixed Prosthodontics
Academic Year / Level : 4th year / 7th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	PROS 423
Credit Hours	2
Lecture /week	1
Practicals / week	3
Total	4

Pre-Request: PROS322

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of diagnosis and treatment planning.
- To familiarize the student with component parts of fixed partial denture.
- To enable the students to recognize and practice the different clinical steps from tooth preparation to provisional restorations.
- To learn the students about different types of pontics.
- To educate the students about different types of partial coverage restorations.

2. Intended Learning Outcomes of Course(ILOs)

By the end of this course, the students should be able to:

a) Knowledge and understanding :

- a1- Employ the different diagnostic aids for proper diagnosis
- a2- Discuss techniques of construction of different types of temporary restorations
- a3- Recognize the different methods of tissue dilation .
- a4 - Classify the different types of impression materials & techniques.
- a5 - Classify different types of pontics
- a6- Classify different types of partial coverage restorations.

b) Intellectual Skills:

- b1- Design proper treatment planning using diagnostic skills and knowledge
- b2- Interpret the data obtained by the different diagnostic measures

b3. select the suitable type of pontics.

c) Professional and Practical Skills

c1 perform properly different types of full coverage teeth preparation as bridge retainer on simulator with proper path of insertion.

c2 construct acrylic resin temporary restoration.

D) General and transferable skills

D1. Display appropriate professional communication skills with colleagues, the rest of the dental team, and other relevant person or groups.

D2. Utilize different sources for continuing professional development and life-long learning.

3. Course Contents:

Ser.	TOPIC
1	Diagnosis & Treatment Planning
2	Partial coverage restorations
3	Provisional Restoration
4	Tissue Dilation
5	Impression materials & techniques
6	Bite registration
7	Pontics

4. Teaching and Learning Methods

4-1. Lectures

4-2. Demonstrations

4.3 Clinical classes

5. Student Assessment Methods

5-1. Written examination

5-2. Clinical examination

5-3. Oral examination

5-4 Quizzes

Assessment Schedule

Assessment 1: 1st Mid Term Written Exam

Assessment 2: 2nd Mid Term Written Exam

Assessment 3: Clinical exam

Assessment 4: Final written & oral exam

Weighting of Assessments

1st Mid Term Examination 15 %

2nd Mid Term Examination 15 %

Oral Examination 10 %

Practical Examination 15 %

Final Written Exam	25 %
Other types of requirements	20 %
Total	100 %

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books)

Text books : Rosenthiel- Contemporary fixed Prosthodontics , 5th edition 2016

7. Facilities Required for Teaching and Learning

7.1 Lecture Hall

7.2 Clinical facilities (specialized outpatient clinic)

7.3 Laboratory facilities

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical sections
4-4	assignment

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			
	a2	√			
	a3	√			
	a 4	√			
	a5	√			
b	b1	√			
	b2	√			
	b3	√			
c	c1		√	√	
	c2		√	√	
d	d1-				√
	d2			√	√
	d3			√	√

Please insert rows and columns whenever needed

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Clinical Examination
5-3	Oral examination
5-4	Quizzes

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√		√	√
	a2	√		√	√
	a3	√		√	√
	a4	√		√	√
	a5	√		√	√
	a6	√		√	√
b	b1	√		√	√
	b2	√		√	√
	b3	√		√	√
c	c1		√		
	c2		√		
d	d1		√		
	d2		√		

Course Coordinator :Dr Rasha Nabil
Head of Department :Prof Ashraf Hussein.
Date : / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications for
Clinical Crowns & bridges
PROS 424

Course Specifications

Program(s) on which the course is given B.D.S
Department offering the course: Fixed Prosthodontics
Academic Year / Level : 4th year / 8th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	Pros 424
Credit Hours	2
Lecture /week	1
Practicals / week	3
Total	4

Pre-Request: PROS423

B- Professional Information

1. Overall Aims of Course

- To familiarize the student with component parts of fixed partial denture.
- To understand the basics of selection of an appropriate fixed partial denture design.
- To familiarize the students with the basics of colour science and shade selection process and checking and verification..
- To enhance the students knowledge about metal ceramic restorations.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1- Classify different types of connectors.
- a2- Explain all the steps concerning construction of metal ceramic restorations .
- a3- Recognize different bridge components.
- a4- Employ the different types of precession attachments .
- a5- Discuss the details of basics of color science .
- a6- Discuss the details of the process of checking and verification.

b) Intellectual Skills:

- b1- Select proper bridge design.
- b2- Select properly the different bridge component.
- b3- detect different causes of failure of metal- ceramic restorations.

c) Professional and Practical Skills:

- c1- Select the proper bridge design of fixed Partial denture.
- c2- Perform preparation for metal ceramic restoration . .

- c3- Perform proper color selection process.
- c4- Perform properly all the steps of checking and verification

d) General and transferable skills

- d1- Communicate effectively both orally and in written format.
- d2 - Manage time and workload properly.

3. Course Contents:

Ser.	TOPIC
1	Fixed Prosthodontics Design
2	Connectors
3	Precision Attachment
4	Color Science & Shade Selection
5	Metal ceramic restorations
6	Checking & Verification

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Clinical sessions.
- 4-3. Demonstrations.
- 4-4 Assignments

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral exam
- 5-3. Clinical examination
- 5-4. Quizzes

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

1 st Mid Term Examination	15	%
2 nd Mid Term Examination	15	%
Mid Term Practical Examination	10	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Other types of assessment	10	%
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Essential books (Text Books)

Text books : Rosenthiel Contemporary fixed Prosthodontics. 5th edition.

7. Facilities Required for Teaching and Learning

Facilities used for teaching this course include:

1. Lecture room.
2. Clinical Facilities (Specialized outpatient clinic)
(Dental Units)
3. Dental lab.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Clinical Sessions
4-3	Demonstration
4-4	Assignments

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			
	a2	√			
	a3	√			
	a4	√			
	a5	√			
	a6	√			
b	b1	√			
	b2	√			
	b3	√			
	b4	√			
c	c1	√	√	√	
	c2	√	√	√	
	c3	√	√	√	
	c4	√	√		
d	d1				√
	d2				√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical examination
5-4	Quizzes (continuous assessment)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√	√		√
	a2	√	√		√
	a3	√	√		√
	a4	√	√		√
	a5	√	√		√
	a6	√	√		√
b	b1	√	√		√
	b2	√	√		√
	b3	√	√		√
c	c1	√	√		√
	c2	√	√		√
	c3	√	√		√
	c4	√	√		
d	d1		√	√	√
	d2			√	

Course Coordinator :Prof. Dr. Eman Anwar

Head of Department :Prof. Ashraf Hussein Sherif

Date : / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
Clinical Removable
Prosthodontics
PROS 413

Course Specifications

Program on which the course is given Bachelor of Dental medicine and Surgery

Department offering the program: **Faculty of Oral and Dental Medicine**

Department offering the course: clinical Removable Prosthodontic

Academic Year / Level: 4th year / 7th semester

A- Basic Information

Course Title	Removable Prosthodontic Technology
Code	PROS413
Credit Hours	2
Lecture /week	1
Practicals / week	3
total	4

Pre-request: **PROS 413**

B- Professional Information

1. Overall Aims of Course

- This course is designed to familiarize the students with clinical procedures and techniques used in complete denture removable prosthodontics.
- The student will gain experience in the fabrication of complete dentures.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

- a1- Describe the anatomy and physiology of the oral cavity
- a2- Describe various steps of history taking and clinical examination including intra and extraoral examination .
- a3- Define different steps for complete denture construction
- a4- Describe different impression techniques
- a5- Explain various mandibular movements
- a6- Recognize jaw relation , basic occlusion , methods of recording jaw relation in complete denture.
- a7- Describe steps of try in , denture insertion and maintenance of complete dental appliance .
- a8- Identify patient complaints after denture insertion .
- a9- List various types of artificial teeth.
- a10- Describe remounting, repair, relining, and rebasing of dentures.

b) Intellectual Skills:

- b1- Interpret normal and abnormal edentulous anatomy and its relationship to complete denture fabrication
- b2- Explain different factors related to retention and stability of complete denture .
- b3- Assess the typical problems that can occur during complete denture construction.
- b4- Make decisions regarding common technical discrepancies and faults using appropriate problem solving skills.
- b5- Distinguish patient complain and develop the effective measures for their treatments

c) Professional and Practical Skills:

- c1-Perform intra and extra oral examinations
- c2 Apply procedures of basic impression techniques, jaw relation record, trial and final denture insertion
- c3-Manipulate the dental material necessary for fabrication a complete denture
- c4- Construct casts and models and take required radiographs to formulate the best treatment plan according to patient's needs.
- c5- Manage occlusal disharmonies and post insertion follow up
- c6- Use various instrument used in fabrication of complete dentures.
- c7- Perform the laboratory steps required to fabricate a complete denture.
- c8- Perform Repair for complete dentures.

d) - General and transferable skills

- d1- Dealing with patients with different mental attitude and realizing the personal limitations.
- d2- Self evaluates the professional abilities, performance and progress.
- d3- Uses the information technology to improve the education through self – directed learning and research work activities.
- d4- develop skills of problem solving as well as working in a prescribed time limit.

3.Course Contents:

Weeks	Topics		
	content	Lecture	clinical
1 st week	Diagnosis and treatment planning	1hours	3 hours weekly
2 nd week	Diagnosis and treatment planning	1hours	
3 rd week	Impression	1hours	
4 th week	Impression	1hours	
5 th week	Jaw relation	1hours	
6 th week	1 ST Midterm	1hours	
7 th week	Occlusion	1hours	
8 th week	Occlusion	1hours	
9 th week	Try in	1hours	
10 th week	Delivery	1hours	
11 th week	Vacation (Labor day)	1hours	
12 th week	2 nd midterm	1hours	

13th week	Revision	1hours	
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Week	Topic
1	Introduction
2	Objectives
3	Classification and diagnoses forces
4	Impression making
5	Mandibular movements and positions
6	Recording jaw relations
7	Occlusion
8	Try in for dentures.
9	Delivery for complete dentures
10	Complain about complete dentures
11	Relining and rebasing
12	Revision

4. Teaching and Learning Methods

4-1. Lectures

4-2. practical demonstration

4-3 clinical training

4-3. Requirements

5. Student Assessment Methods

5-1. written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge intellectual skills

5-3. Practical examination to assess practical skills & intellectual skills

5-4 Directs observation

Assessment Schedule

Assessment 1: 1st Mid term (written)

Assessment 2: 2nd Mid term (written)

Assessment 3: Class Assessment

Assessment 4: practical exam in April

Assessment 5: Final written & oral exam

Weighting of Assessments

Weighting of Assessments

Mid-term Examinations 30 %

Final term Examination 25 %

Oral Examination 10 %

Practical Examination 15 %

Class assessment 20 %

Total 100%

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Department Notes

7. Facilities Required for Teaching and Learning

- ◆ Lecture halls

- ◆ Small group classes
- ◆ Laboratories
- ◆ Training models
- ◆ Computers , data show

Intended learning outcome	Teaching Methods	Assessment methods			
	4.a-lectures 4.b- Practical demonstration on teaching models 4.c -clinical demonstration on patients 4-d- Small group discussion 4-e- Assignments.	5.a written	5.b oral exam	5.c practical examination	5.d Direct Observation

Intended learning outcome		Teaching Methods	Assessment methods			
a-Knowledge			5.a	5.b	5.c	5.d
By the end of the course every student should be able to:						
a1	Describe the anatomy and physiology of the oral cavity	4-a	√	√		
a2	- Define different steps for complete denture construction	4-a	√	√		
a3	Explain various mandibular movements	4-a	√	√		
a4	Identify various types of impression trays	4-a	√	√		
a5	Define retention and stability.	4-a	√	√		
A6	Define relief and posterior palatal seal.	4-a	√	√		
A7	Define jaw relations.	4-a	√	√		
A8	List types of face bows and articulators.	4-a	√	√		
A9	List various types of artificial teeth.	4-a	√	√		
A10	Define balanced occlusion	4-a	√	√		
A11	Describe remounting , repair , relining ,rebasing in complete denture	4-a	√	√		

Intended learning outcome	Intended learning outcome	Skills	Assessment methods						
			Teaching method	Assessment methods					
				5.a	5.b	5.c	5.d		
b- Intellectual skill	By the end of the course every student should be able to:								
c- Professional and practical skills	By the end of the course every student should be able to:								
b1	b1- Interpret normal and abnormal edentulous anatomy and its relationship to complete denture fabrication	4-a,4b	4-b	√	√	√	√	√	√
b2	c2- Apply procedures of basic impression techniques, jaw relation record, trial and final denture insertion	4-a,4b	4-b	√	√	√	√	√	√
b3	c3- Make decisions regarding common technical discrepancies and faults using appropriate problem solving skills	4-a,4b	4-b	√	√	√	√	√	√
B 4	c4- Manage occlusal disharmonies and post insertion follow up and develop the effective measures for their treatment.	4a, 4b	4-b	4-c	√	√	√	√	√
	c5- Construct casts and models and take required radiographs to formulate the best treatment plan according to patients needs	4-b	4-c				√	√	√

Intended learning outcome d- General and transferable skills By the end of the course every student should be able to:		Teaching method	Assessment methods			
			5.a	5.b	5.c	5.d
d1	Demonstrate sensitivity and caring attitude in patient care particularly towards elderly patients	4-d			√	√
d2	Display an appropriate professional communication skills with patients, colleagues, the rest of dental team and other relevant team or group	4-d			√	√
d3	Adopt a creative attitude in an ethical and scientific approach.	4-d			√	√
d4	Dealing with patients with different mental attitudes and realizing the personal limitations.	4-d			√	√
d5	Self evaluate the professional abilities, performance and progress.	4-d 4-e			√	√
d6	Use the information technology to improve the education through self-directed learning and research work activities .	4-d 4-e			√	√
d7	Develop skills of problem solving as well as working in a prescribed time limit.	4-d 4-e			√	√

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
A	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	A4	√	√	√		√			
	A5	√	√	√		√			
	A6	√	√	√		√			
	A7	√	√	√		√			
	A8	√	√	√		√			
	A9	√	√	√		√			
	A10	√	√	√		√			
	A11	√	√			√			
b	b1			√		√			
	b2			√		√			
	b3			√		√			
	B4			√		√			
	B5			√		√			
c	c1			√		√			
	c2			√		√			
	c3			√		√			
	C4			√		√			
	C5			√		√			
	C6			√		√			
	C7			√		√			
d	d1			√		√			
	d2			√		√			
	d3			√		√			
	D4			√		√			
	D5			√		√			
	D6			√		√			
	D7			√		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√			
	a2	√	√			√			
	a3	√	√			√			
	A4	√	√			√			
	A5	√	√			√			
	A6	√	√			√			
	A7	√	√			√			
	A8	√	√			√			
	A9	√	√			√			
	A10	√	√			√			
	A11	√	√			√			
b	b1				√		√		
	b2				√		√		
	b3				√		√		
	B4				√		√		
	B5				√		√		
c	c1				√		√		
	c2				√		√		
	c3				√		√		
	C4				√		√		
	C5				√		√		
d	d1						√		√
	d2						√		√
	d3						√		√
	D4						√		√
	D5						√		√
	D6						√		√
	D7						√		√

Course Coordinator:

Head of Department:

Course Specifications
Clinical Removable Prosthodontics
PROS 414

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the program: Removable Prosthodontics
Academic Year /Level:4th year / 8th semester

A- Basic Information

Course Title	Clinical Partial denture
Code	PROS 414
Credit Hours	2
Lecture /week	1
Practicals / week	3
Total	4

Pre-Request: PROS413

B- Professional Information

1. Overall Aims of Course

The student will be able to recognize the objectives of removable partial denture, develop the treatment plan and acquiring skill of management of partially edentulous patient.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

- a1- Recognize objectives of partial denture prosthodontics
- a2- Describe the different clinical steps for partial dentures construction.
- a3- Describe mouth preparation procedures and surveying.
- a4- Describe different impression techniques for partially edentulous patient.
- a5- Recognize jaw relation in partially edentulous cases
- a6- List the clinical steps for metal try in.
- a7- Identify patient's complaints after denture insertion and describe effective measures for their diagnosis and treatment.

b) Intellectual Skills:

- b1- Interpret normal and abnormal partially edentulous anatomy and its relationship to partial denture construction ..
- b2- Assess the typical problems that occur during partial denture construction.
- b3- Design appropriate partial denture framework .
- b4- Distinguish patient complains, develop effective measures for their treatment and how to avoid harmful effects of partial denture .

c) Professional and Practical Skills:

- c1- Perform thorough clinical examination both extra and intra oral as well as general assessment of the patient conditions.

- c2- Use of the surveyor in fabrication of partial dentures.
- c3- Perform all clinical steps required to fabricate a partial dentures.

d) General and transferable skills

- d1 – demonstrate sensitivity and attitude in patient care particularly toward elderly patients
- d2 -display appropriate professional communication skills with patients, colleagues and the rest of dental team and other relevant team or group.

3. Course Contents:

Ser.	TOPIC
1	Diagnosis
3	Principles of partial denture design& problems.
4	Impression and mouth preparation
5	Final impression
6	Metal try in
7	Jaw relation
8	Partial denture try in of artificial teeth
9	Initial placement and complaints
10	Harmful effects of partial denture

Weeks	Topics		
	content	Lecture	clinical
1 st week	Overview removable partial denture	1 hours	3 hours weekly
2 nd week	Overview removable partial denture	1 hours	
3 rd week	Diagnosis and primary impression	1 hours	
4 th week	Mouth preparation	1 hours	
5 th week	Secondary impression	1 hours	
6 th	Principles of partial denture design& problems.	1 hours	
7 th	First mid term	1 hours	
8 th	Principles of partial denture design & problems.	1 hours	
9 th	Surveying	1 hours	
10 th	Jaw relation +waxed up try in	1 hours	
11 th	Delivery + relining	1 hours	
12 th	Complains	1 hours	
13 th	Second mid term	1 hours	

4. Teaching and Learning Methods

- 4a-Lectures
- 4b-Clinical demonstration
- 4c-Requirement
- 4d-Assignments.

5. Student Assessment Methods

- 5-1. Written examination
- 5-2 oral exams
- 5-3. Clinical examination

Assessment Schedule

- Assessment 1: 1st Mid term (written)
- Assessment 2: 2nd Mid term (written)
- Assessment 3: Semester Work
- Assessment 4: practical exam
- Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Semester Work	20 %
<hr/>	
Total	100 %

6. List of References

- 6-1 Department notes
- 6-2 Recommended books
- 6-3 Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- 1. Lecture hall
- 2. Clinicals
- 3. Computers, data show

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√	√	√	√			
	a2	√	√	√	√	√			
	a3	√	√	√	√	√			
	a4	√	√						
	a5	√	√						
	a6	√	√						
	a7	√	√						
b	b1		√	√		√			
	b2		√	√		√			
	b3		√	√		√			
	b4		√	√		√			
c	c1			√		√			
	c2			√		√			
	c3			√		√			
d	d1			√		√			
	d2			√		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√	√		
	a2	√	√			√	√		
	a3	√	√			√	√		
	A4	√	√			√	√		
	A5	√	√			√	√		
	A6	√	√			√	√		
	A7	√	√			√	√		
b	b1		√		√				
	b2		√		√				
	b3		√		√				
	b4		√		√				
c	c1				√				
	c2				√				
	c3				√				
d	d1				√			√	
	d2				√			√	

Course Coordinator:

Head of Department:

Course Specifications Oral and Maxillofacial Surgery

OMF 411

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level: 4th year / 7th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF 411
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

B- Professional Information

1. Overall Aims of Course

- 1) To educate students nerve supply for all maxillary and mandibular teeth.
- 2) To educate students dental pain pathway and methods of pain control.
- 3) To educate students pharmacology of local anesthetics and components of local anesthetic carpule.
- 4) To train students in administering local anesthesia for the different dental and oral surgery procedures with regards to infection control protocols
- 5) To educate students local and systemic complications of local anesthesia and their management.
- 6) Introduce the student to the basic principles and techniques of closed exodontia.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

a1- Describe the physiologic mechanisms of pain modulation and pain control

a2- Identify the mechanism of action of local anesthetics

a3- Recognize the different local anesthetic solutions and vasoconstrictors

a4- Describe the different local anesthetic techniques

a5- Recognize the local and systemic complications of local anesthesia

a6- Identify and list the armentarium needed for minor oral surgery procedures

b) Intellectual Skills:

By the end of this course every student able to:

b1- Select the appropriate referral of patients for specialist advice or treatment.

b2- Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan

c) Professional and Practical Skills:

By the end of this course every student able to:

c1- Correctly perform an appropriate physical examination including

intraoral as well as head and neck examination

c2- prepare the armentarium and the treatment environment for minor

oral surgery procedures

c3- collect and record personal data, medical history and vital signs

c4- execute infection control and asepsis standards

c5- perform pre-anesthetic evaluation / premedication

c6- administer infiltration and block local anesthesia

d) General and transferable skills

By the end of this course every student able to:

D1. Perform self-assessment and identification of personal learning needs.

D2. Use of different sources for access to information and knowledge.

D3. Write and present scientific researches

3. Course Contents:

Ser.	TOPIC
1	Nerve supply of maxillary and mandibular teeth and pain pathway
2	Infection control in dental office and methods of sterilization
3	Pharmacology and contents of local anesthetic carpule
4	Techniques of local anesthesia
5	Complications of local anesthesia
6	Anatomical consideration for closed and open exodontia
7	Technique of closed exodontia and postoperative care and instructions

Topics and Tentative Schedule

Weeks	Topics
1st week	Scope of Oral and Maxillofacial Surgery
2nd and 3rd weeks	Anatomical consideration, innervation, pain and pain pathway
4th and 5th weeks	Pharmacology of Local anesthesia
6th, 7th and 8th weeks	Local anesthetic techniques
9th and 10^h week	Local anesthetic complications
11th and 12th weeks	Exodontia and its anatomical considerations
13th week	Aseptic techniques

4. Teaching and Learning Methods

4.1- Lectures

4.2- Small group sessions:

. 4.3- Clinical training (demonstration,)

4.4- Tutorial classes (small group teaching, tutorial demonstration)

4-5 E-learning

5. Student Assessment Methods

5-1. written exam to assess knowledge and understanding

5-2. Oral examination to assess knowledge and understanding & general

Intellectual skills

5-3. practical examination to assess Practical skills & general skills

5-4 Quizzes

5-5 Assignments

Assessment Schedule

Assessment 1: 1st midterm exam (written)

Assessment 2: 2nd midterm exam (written)

Assessment 3: practical exam

Assessment 4: Final written

Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Mid-term Practical Examinations	20 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Total	100 %
Any formative only assessments	

6. List of References

6-1. Course Notes

- Teaching staff lecture notes handouts

6-2. Essential Books (Text Books)

- Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6. 2015
- Handbook of Local Anesthesia by Stanley F. Malamed. Ed6 2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- on the 2nd floor,faculty of oral and dental medicine, Future University
- White writing boards , Overhead projector , Slide projector and LCD projector (Data show) is available

2)- Clinical Small group teaching,clinical sessions and outpatient clinic held in the oral surgery clinics, ground floor, faculty of oral and dental medicine, Future University

3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial Surgery department, white writing borad, x ray viewer, overhead Projector, slide projector, LCD projector (data show) and videotape

3)-Library:

On the 2nd floor of the faculty of oral and dental medicine, Future University

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training (demonstration,)
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√	√			
	a2	√	√			
	a3	√	√			
	a4	√	√			
	a5	√	√			
	a6	√	√			
b	b1		√			
	b2		√			
c	c1		√	√	√	
	c2		√	√	√	
	c3		√	√	√	
	c4		√	√	√	
	c5		√	√	√	
	c6		√	√	√	
d	d1		√			
	D2				√	
	D3					√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√	√	√		
	a2	√	√	√		
	a3	√	√	√	√	
	a4	√	√	√	√	
	a5	√	√	√		
	a6	√	√	√	√	
b	b1		√		√	
	b2		√		√	
c	c1			√		
	c2			√		
	c3			√		
	c4			√		
	c5			√		
	c6			√		
d	d1		√		√	
	D2					√
	D3					√

Course Coordinator:

Dr. Mahmoud Elarini

- Head of Department:
- Professor Doctor/ Ahmed Barakat

Course Specifications
Oral and Maxillofacial Surgery
OMF 412

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level: 4th year / 8th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF412
Credit Hours	3
Lecture /week	2
Practicals / week	2
Total	4

B- Professional Information

1. Overall Aims of Course

- 1) To learn the art of assessing patients and their suitability for all minor surgical procedures, by taking systematic history, including detailed medical history, thorough physical examination and the proper use of investigations.
- 2) To learn the methods and techniques employed to institute infection control measures, sterilization, asepsis and disinfection.
- 3) To educate and train students in administering local anesthesia for the different dental and oral surgery procedures.
- 4) To enable the student to have intellectual and clinical skills in basic, complicated exodontias and minor oral surgical procedures based on an outpatient population.
- 5) To learn about the intra-alveolar technique and the principles of forceps and elevators use.
- 6) To study the indications for trans-alveolar technique, the designing of flaps, the methods employed for bone removal and the different types of suture material.
- 7) To assess impacted teeth and how to treat it and how to design a muco-periosteal flap and to remove bone.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

a1-Discuss the indications and contra-indications of tooth extraction

a2- list the armamentarium needed for minor oral surgery procedures

a3-Describe the techniques of forceps extraction and use of dental elevators for uncomplicated exodontia

- a4- Identify the principles of mucoperiosteal flap design and surgical removal of teeth
- a5- Recognize complications resulting from teeth extraction
- a6- Properly identify and diagnose impacted teeth that require removal
- a7- Describe surgical techniques for removal of impacted teeth & complications associated with surgical removal
- a8- Discuss the management of medical emergencies that may occur in the dental office

b) Intellectual Skills:

By the end of this course every student able to:

B1- Relate the advantages and disadvantages of relevant treatment plans with patients

B2- Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan

c) Professional and Practical Skills:

By the end of this course every student able to:

c1- Perform an appropriate physical examination including intraoral and head and neck examination

c2- Prepare the armentarium and the treatment environment for minor oral surgery procedures

c3- Collect and record personal data, medical history and vital signs

c4- Execute infection control and asepsis standards

c5- Perform pre-anesthetic evaluation / premedication

c6- Administer infiltration and block local anesthesia

c7- Give postoperative instructions to the patient

d) General and transferable skills

By the end of this course every student able to:

D1. Working in a team,

D2. Time management efficiently.

D3. Self-learning and continuous.

3. Course Contents:

Ser.	TOPIC
1	Trans-alveolar exodontia
2	Principals of using elevators
3	Complications of exodontia
4	Impacted teeth
5	Pre-prosthetic surgery
6	Medical emergencies in the dental office

Weeks	Topics
1 st ,2 nd and 3 rd weeks	Surgical removal of teeth
4 th , and 5 th weeks	Complications of exodontias
6 th ,7 th and 8 th weeks	Impacted teeth
9 th , and 10 th weeks	Preprosthetic surgery

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Clinical and Small group sessions :
- 4.3- Clinical training (demonstration, skill practice, chair-side supervision)
- 4.4- Tutorial classes (small group teaching, tutorial demonisteration, case presentation, radiographic interpretation)
- 4.5-E-learning

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding
- 5-2. Oral examination to assess knowledge and understanding & general intellectual skills
- 5-3. practical examination to assess Practical skills & general skills
- 5-4 Clinical examination
- 5-5 Quizes
- 5-6 Assignments
- 5-7 posters

Assessment Schedule

- Assessment 1: 1st midterm exam (written)
- Assessment 2: 2nd midterm exam (written)
- Assessment 3: practical exam
- Assessment 4: Final written
- Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Mid-term Practical Examinations	20 %
Final term Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Total	100 %

6. List of References

- 6-1. Course Notes
 - Teaching staff lecture notes handouts
 - LCD projector (data show) and videotape
- 6-2. Essential Books (Text Books)
 - Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6.2015
 - Handbook of Local Anesthesia by Stanley F. Malamed. Ed.6.2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall :
 - on the 2nd floor, faculty of oral and dental medicine, Future University
 - White writing boards and LCD projector (Data show) is available
- 2)- Clinical Small group teaching, clinical sessions and outpatient clinic held in the oral surgery clinics, 2nd floor, faculty of oral and dental medicine, Future University
- 3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial

Surgery department, white writing board, x ray viewer, overhead
 Projector, slide projector, LCD projector (data show) and videotape
 3)-Library: On the 2nd floor of the faculty of oral and dental medicine, Future
 University

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√	√			
	a2	√	√			
	a3	√	√			
	A4	√	√			
	A5	√	√			
	A6	√	√			
	A7	√	√			
	A8	√	√			
b	b1		√			
	b2		√			
	b3		√			
c	c1		√			
	c2		√			
	c3		√			
	c4		√	√	√	
	c5		√	√	√	
	c6		√	√	√	
	c7			√	√	
d	d1		√		√	
	D2				√	
	D3					√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√							
	a2	√		√	√	√			
	a3	√	√	√	√	√			
	A4	√		√	√	√			
	A5	√		√	√	√			
	A6	√		√	√	√			
	A7	√	√	√	√	√			
	A8	√							
b	b1		√						
	b2		√						
	b3		√						
c	c1		√						
	c2		√						
	c3		√						
	c4		√	√	√	√			
	c5		√	√	√	√			
	c6		√	√	√	√			
	c7			√	√	√			
d	d1						√		√
	D2						√		
	D3								√

Course Coordinator:

- Professor Doctor/ Lobna Abdel Aziz.

Head of Department:

- Professor Doctor/ Ahmed Barakat

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Oral Medicine and Periodontology
MPDR 411**

Course Specifications

Program on which the course is given: Bachelor of Dental Medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, Diagnosis and
Academic Year /Level:4th year / 7th semester

Oral Radiology

A- Basic Information

Course Title	Periodontology
Code	MPDR 411
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-Request: all pre-clinical subjects

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- a) To foster knowledge that governs the principles of innate and acquired immune defense mechanisms.
- b) To provide opportunities for reviewing the macro- and microanatomy of the periodontium, histopathology, etiology and pathogenesis of periodontal diseases.
- c) To expand students analytical skills relative to clinical signs and symptoms and radiographic features of periodontal diseases.

2. 2 Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of this course, the student should be able to:

- a1- Identify the mechanism of innate and acquired immune mechanisms and related immune cells.
- a2- State the different complement pathways and its role in immunity and inflammation.
- a3- Recall the macro- and microanatomy of the periodontium.
- a4- Define different diseases affecting the periodontium.
- a5- Recognize the clinical signs and symptoms and radiographic features of plaque induced gingivitis and chronic periodontitis.
- a6- Explain the etiology of the periodontal diseases.
- a7- Review the pathogenesis of periodontal diseases.

b) Intellectual Skills:**Intellectual Skills:**

By the end of the program the student should be able to:

- b1- Compare between innate and acquired immune responses.
- b2- Differentiate between different types of lymphocytes, subtypes of types T lymphocytes and different functions of antibodies.
- b3- Classify periodontal diseases.
- b4- Differentiate between the different histopathological stages of gingivitis.
- b5- Relate the clinical and radiographic features to reach a proper diagnosis.

c) Professional and Practical Skills:

- c1- fill a periodontal chart.
- c2- Diagnose common gingival and periodontal diseases.
- c3- Apply the principles of periodontal instrumentation.
- c4- Perform efficiently scaling and root planing.
- c5- Choose the appropriate technique and methods for mechanical plaque control.
- c6- Modify the plan for chemical plaque control according to observed signs and symptoms.
- c7- Apply infection control guidelines for all clinical procedures.

d) General and transferable skills:

By the end of the program the student should be able to:

- d1- Maintain good relationship with his/her colleagues, instructors and professors.
- d2- Appreciate and respect the patient's needs and demands.
- d3- Self-evaluate professional abilities, progress and performance.

3. Course Contents:

Ser.	TOPIC
1	Introduction to immunology.
2	Histology
3	Classification, Plaque induced gingivitis, Chronic periodontitis
4	Dental plaque
5	Etiology
6	Pathogenesis

7) Topics and Tentative Schedule:

Week	Lecture Topics	Clinic Schedule
1 st week	<u>Introduction to immunology</u> Innate immunity, Plasma proteins, Antigen characteristics	Macroanatomy of the gingiva, plaque induced gingivitis, chronic periodontitis
2 nd week	Cell mediated immune response (T lymphocytes and Cytokines)	Instrumentation, positions, periodontal chart
3 rd week	Humoral immune response (B lymphocytes)	Mechanical and chemical plaque control

4 th week	Complement	Demo supragingival scaling + CASES
5 th week	1st midterm	CASES
6 th week	Phagocytic system	QUIZ + CASES
7 th week	<u>Periodontology</u> Histology	CASES
8 th week	Classification, Plaque induced gingivitis, Chronic periodontitis	CASES
9 th week	2nd midterm	CASES
10 th week	Dental plaque	CASES
11 th week	Etiology	CASES
12 th week	Pathogenesis	FINAL EXAM PRACTICAL
13 th week	Pathogenesis	FINAL EXAM PRACTICAL

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Practical class work	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%
Any formative only assessments	

6. List of References

6-1. Course notes

6-2. Essential Books (Text books)

- Clinical Periodontology and Implant Dentistry, *Jan Lindhe and Niklaus P. Lang, 6th Edition, 2016.*

6-3. Recommended books

- Carranza`s Clinical Periodontology, *Newman MG, Takei HH, Klokkevold PR, Carranza FA, 12th Edition, 2015.*
- Atlas of Cosmetic and Reconstructive Periodontal Surgery, *Cohen ES, 3rd Edition, 2013.*

6-7. Periodicals, Web Sites.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	*	-	-	-	-	-
	a2	*	*	*	-	-	-	-	-
	a3	*	*	*	-	-	-	-	-
	a4	*	*	*	*	*	-	*	-
	a5	*	*	*	*	*	-	*	-
	a6	*	*	*	-	-	-	-	-
	a7	*	*	*	-	-	-	-	-
b	b1	*	*	*	-	-	-	-	-
	b2	*	*	*	-	-	-	-	-
	b3	*	*	*	*	*	-	*	-
	b4	*	*	*	-	-	-	-	-
	b5	*	*	*	*	*	-	*	-
c	c1	-	-	*	*	*	-	-	-
	c2	-	-	*	*	*	-	-	-
	c3	-	-	*	*	*	-	-	-
	c4	-	-	*	*	*	-	-	-
	c5	-	-	*	*	*	-	-	-
	c6	-	-	*	*	*	-	*	-
	c7	-	-	*	*	*	-	-	-
d	d1	-	-	*	*	*	-	-	-
	d2	-	-	*	*	*	-	-	-
	d3	-	*	-	*	*	-	-	-

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	*
	a2	*	*	-	-	*	*	*	*
	a3	*	*	-	-	*	*	*	*
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	*
b	b1	*	*	-	-	*	*	*	*
	b2	*	*	-	-	*	*	*	*
	b3	*	*	-	*	*	*	*	*
	b4	*	*	-	-	*	*	*	*
	b5	*	*	-	*	*	*	*	-
c	c1	-	*	-	*	-	-	-	-
	c2	-	*	-	*	*	*	*	-
	c3	-	*	-	*	-	-	*	-
	c4	-	*	-	*	-	-	*	-
	c5	-	*	-	*	-	-	*	-
	c6	-	*	-	*	-	*	*	-
	c7	-	*	-	*	-	-	*	-
d	d1	-	-	-	*	-	-	*	-
	d2	-	-	-	*	-	-	-	-
	d3	-	-	-	*	-	-	-	-

Course Coordinator: Lecturer dr. Walid Abbas

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Oral Medicine and Periodontology
MPDR 412**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Oral Medicine, Periodontology, Diagnosis, Oral Radiology

Academic Year /Level:4thyear / 8th semester

A- Basic Information

Course Title	Periodontology
Code	MPDR 412
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-request: MPDR 411

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

1. To expand students analytical skills to distinguish between various periodontal diseases.
2. To relate periodontal diseases to various local predisposing and systemic modifying factors.
3. Formulate proper diagnosis and treatment plan for periodontal diseases.
4. To provide opportunities for review and analysis of a wide range of non surgical and surgical periodontal therapy.
5. To introduce to the recent techniques and materials related to periodontal regeneration.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the program the student should be able to:

- a1- Identify the different local predisposing and systemic modifying factors affecting the periodontium.
- a2- Describe the etiology, clinical and radiographic features and management of aggressive periodontitis..
- a3- State the etiology, clinical and radiographic features and management of acute gingival and periodontal conditions.
- a4- Recall the diagnosis of periodontal diseases.
- a5- Enumerate the factors that affect prognosis of periodontal disease.
- a6- Explain the non surgical and surgical phases of periodontal treatment.
- a7- Describe different modalities of regenerative periodontal therapy.

b) Intellectual Skills:

By the end of the program the student should be able to:

- b1- Classify the local predisposing and systemic predisposing factors.
- b2- Distinguish between chronic and aggressive periodontitis.
- b3- Compare between acute periodontal and periapical abscesses.
- b4- Interpret different signs and symptoms and relate them to various gingival and periodontal diseases.
- b5- Propose the proper treatment plan for different gingival and periodontal conditions.
- b6- Classify the types of grafts and membranes.
- b7- Compare between different types of grafts and different types of membranes.

c) Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Complete periodontal examination and diagnose common gingival and periodontal diseases.
- c2- Distinguish between different types of periodontal diseases.
- c3- Select a treatment plan for different periodontal conditions.
- c4- Perform nonsurgical periodontal therapy including supragingival scaling and subgingival debridement and prescription of mouth rinses.
- c5- Distinguish the possible applications of surgical periodontal therapy.

d) General and transferable skills

By the end of the program the student should be able to:

- d1- Exercise effective communication methods with other health care professionals and auxiliary persons to maximize patient benefits and minimize the risk of errors.
- d2- Motivate students by encouraging team work and leadership activities and develop professional attitude.
- d3- Manage Time and stress with the capability to prioritize work load for better performance and management

3. Course Contents:

Ser.	TOPIC
1	Local predisposing and systemic modifying factors
2	Aggressive periodontitis
3	Acute gingival and periodontal conditions
4	Diagnosis and prognosis of periodontal diseases
5	Non surgical periodontal therapy
6	Surgical periodontal therapy
7	Regenerative periodontal therapy

9) Topics and Tentative Schedule:

Week	Lecture	Clinic Schedule
1 st week	Local predisposing factors	Revision (Writing periodontal chart)
2 nd week	Influence of systemic diseases and disorders on periodontium	CASES
3 rd week	Influence of systemic diseases and disorders on periodontium	CASES
4 th week	Aggressive periodontitis	Demo subgingival scaling and root planing + CASES
5 th week	1st midterm	CASES
6 th week	Periodontal abscess, Acute gingival infections	CASES
7 th week	Diagnosis of periodontal disease, Prognosis of periodontal disease	CASES
8 th week	Mechanical plaque control, Scaling and root planing	Surgical periodontal therapy
9 th week	2nd midterm	Surgical periodontal therapy
10 th week	Chemical plaque control	Quiz + CASES
11 th week	Surgical periodontal therapy, Gingivectomy and Gingivoplasty, Tissue attachment procedures	CASES
12 th week	Periodontal flap, Osseous surgery	<i>FINAL EXAM PRACTICAL</i>
13 th week	Regenerative periodontal therapy	<i>FINAL EXAM PRACTICAL</i>

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Practical class work	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%

Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Essential Books (Text books)
 - Clinical Periodontology and Implant Dentistry, *Jan Lindhe and Niklaus P. Lang, 6th Edition, 2016.*
- 6-3. Recommended books
 - Carranza`s Clinical Periodontology, *Newman MG, Takei HH, Klokkevold PR, Carranza FA, 12th Edition, 2015.*
 - Atlas of Cosmetic and Reconstructive Periodontal Surgery, *Cohen ES, 3rd Edition, 2013.*
- 6-7. Periodicals, Web Sites.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and Learning Methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	-	-	-	-	-	-	-
	a2	*	*	*	-	*	-	*	-
	a3	*	*	*	-	*	-	*	-
	a4	*	*	*	-	*	-	*	-
	a5	*	*	-	-	-	-	*	-
	a6	*	*	-	-	*	-	*	-
	a7	*	*	-	-	-	-	*	-
b	b1	*	-	-	-	-	-	-	-
	b2	*	*	*	-	*	-	*	-
	b3	*	*	*	-	*	-	*	-
	b4	*	*	*	-	*	-	*	-
	b5	*	*	*	-	*	-	*	-
	b6	*	*	-	-	-	-	-	-
	b7	*	*	-	-	-	-	-	-
c	c1	-	*	*	-	*	-	-	-
	c2	-	*	*	-	*	-	-	-
	c3	-	*	*	-	*	-	-	-
	c4	-	-	*	-	*	-	-	-
	c5	-	*	*	-	*	-	-	-
d	d1	-	*	-	-	-	-	-	-
	d2	-	*	-	-	-	-	-	-
	d3	-	*	-	-	-	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	-	-
	a2	*	*	-	*	*	-	-	-
	a3	*	*	-	*	*	-	-	-
	a4	*	*	-	*	*	-	-	-
	a5	*	*	-	*	*	-	-	-
	a6	*	*	-	*	*	-	-	-
	a7	*	*	-	*	*	-	-	-
b	b1	*	*	-	-	*	-	-	-
	b2	*	*	-	*	*	-	-	-
	b3	*	*	-	*	*	-	-	-
	b4	*	*	-	*	*	-	-	-
	b5	*	*	-	*	*	*	*	-
	b6	*	*	-	*	*	-	-	-
	b7	*	*	-	*	*	-	-	-
c	c1	-	-	*	*	-	-	-	-
	c2	-	-	*	*	-	-	-	-
	c3	-	-	*	*	-	-	-	-
	c4	-	-	-	*	-	-	-	-
	c5	-	-	*	*	-	-	-	-
d	d1	-	-	-	-	-	-	-	-
	d2	-	-	-	-	-	-	-	-
	d3	-	-	-	-	-	-	-	-

Course Coordinator: Assis. Prof dr. Ahmed Barbary

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

Course Specifications
Orthodontics

ORP 431

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Orthodontics

Academic Year / Level: 4th yea / 7th semester

A- Basic Information

Course Title	Introduction to Orthodontics
Code	ORP 431
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: PROS242

B- Professional Information

1. Overall Aims of Course

- 1)-To educate the students about the basics features of facial growth and development and to familiarize students with progressing abnormalities in dental patients .
- 2)- To familiarize the student with the knowledge of occlusion and to be able to manage the etiological factors associated with the disordered occlusion.
- 3)- To enable the students to diagnose orthodontic problems
- 4)- To enable development and application of appropriate professional attitudes and communication .

4. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course the student should be able to:

- a1- Recognize the basis of normal human facial growth and development from birth until completion of growth
- a2- Describe the stages of normal development of occlusion during infancy , primary dentition , mixed dentition , and permanent dentition
- a3- Recognize the phases of eruption and their effect on development of malocclusion
- a4- Define the terminology of malposed teeth and different types of classification of malocclusion .
- a5- Identify the etiological factors of malocclusion and its impact on the developing occlusion.

a6- Describe extra oral and intraoral examination from an orthodontic perspective

b) Intellectual Skills:

By the end of the course the student should be able to:

b1- Recognize a developing normal occlusion and be able to distinguish abnormal deviation that necessitates treatment .

b2- distinguish between different causes of malocclusion and prophylactic measures against it.

c) Professional and Practical Skills:

By the end of the course the student should be able to:

c1- Record accurately patient's chief complaint

c2- Report and document a complete focused medical and dental history for patients

c3- Carry out extra-oral and intraoral examination of the patient including head and neck , oral hard and soft tissues .

c4- Perform and document a complete physical and mental status examination for a patient

c5- Prescribe diagnostic aids appropriate for every individual case

c6- Interpret acquired data in term of their diagnostic significances .

c7-Identify accurately underlying dento-skeletal abnormalities.

d) General and transferable skills

By the end of the course the student should be able to:

d1- Communicate with other healthcare professionals both verbally and in globally accepted written formats .

d2- Recognize moral and ethical responsibilities involved in the provision of care to individual patients and to community

3. Course Contents:

Ser.	TOPIC
1	Craniofacial Growth and development
3	Development of normal occlusion
4	Description of normal occlusion
4	Classification of malocclusion
5	Terminology of malocclusion
6	Etiology of malocclusion
7	Revision

4. Teaching and Learning Methods

4-1. Lectures

4-2. small group sessions

4-3. Practical demonstrations, Practice of skills, and discussions

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. practical examination to assess ability of data collection , analysis and formulation of a treatment plan

5-3. Oral examination to assess knowledge and understanding (and assessment general and professional skills)

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%	
Mid Term Practical Examination	20	%	
Oral Examination	10	%	
Practical Examination	15	%	
Final Written Examination	25	%	
Total	100	%	
Any formative only assessments			

6. List of References

6-1. Course notes

- Department books : available for students to purchase from department secretary.
- Overhead projectors, slides and computer presentation used during teaching

6-2. Essential books(Text Books)

- "Contemporary orthodontics" by William R. Proffit, Henry W. Fields Jr., 5th edition; April (2012).

7. Facilities Required for Teaching and Learning

- Lecture hall at the Faculty of oral & dental medicine. Writing board, flip chart, overhead and slide projectors are available. Data show is available with prior arrangements.
- practical lab on the second floor of the faculty of oral & dental medicine, future university. Flip charts, overhead projectors and data show are available for use when needed.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√			√		√		
	a2	√			√		√		
	a3	√			√		√		
	a4	√			√		√		
	a5	√		√	√	√	√	√	
	a6	√		√			√	√	
b	b1	√			√		√		
	b2	√			√		√		
c	c1				√				
	c2			√	√		√		
	c3			√	√		√		
	c4			√	√		√		
	c5			√	√		√		
	c6			√	√		√		
	c7			√	√		√		
d	d1				√		√		
	d2				√		√		

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	a4	√	√	√		√			
	a5	√	√	√		√			
	a6		√	√		√			
b	b1	√	√	√		√			
	b2	√	√	√		√			
c	c1		√	√			√		
	c2		√	√			√		
	c3		√	√			√		
	c4		√	√			√		
	c5		√	√			√		
	c6		√	√			√		
	c7		√	√			√		
d	d1		√						
	d2		√						

Course Coordinator :

Head of Department : Prof. Yahya Mostafa

Date: / /

Course Specifications
Orthodontics
ORP 432

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Orthodontics

Academic Year / Level :4th year / 8th semester

A- Basic Information

Course Title	Introduction to Orthodontics
Code	ORP 432
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-Request: ORP 431

B- Professional Information

1. Overall Aims of Course

- 1)- To enable the students to diagnose orthodontic problems and methods of management.
- 2)- To understand appropriate time of intervention in potential orthodontic cases and to reach students preventive and interceptive measures in developing malocclusions and improve problem solving skills
- 3)- to understand the possible causes of orthodontic relapse and methods of retention .

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course the student should be able to:

- a1- Discuss the concept of extraction in orthodontics
- a2- Discuss the biological principles of tooth movement and describe the different types of tooth movement
- a3- Describe the basic biomechanical principles of orthodontics tooth movement
- a4- Recognize the behavior of orthodontics wires
- a5- Describe the needed measures for the prevention of malocclusion in the primary and mixed dentition stage
- a6- Identify the appropriate management of abnormalities affecting the occlusion in the primary and mixed dentition
- a7- Recognize the basic principles of orthodontic appliance design
- a8- Enumerate possible orthognathic surgical techniques and list the types of

malocclusions that would indicate their choice for treatment .

- a9- Recognize the problem of relapse and the procedures taken to maintain the position of teeth achieved by orthodontic treatment
- a10- Recognize the sequelae of untreated malocclusion and its influence on oral health
- a11- Recognize the interrelationship between orthodontics and other dental specialties
- a12- Recognize the iatrogenic effect in orthodontics

b)Intellectual Skills:

By the end of the course the student should be able to:

- b1- Select appropriate time of intervention in potential orthodontic cases and what these interventions are likely to be
- b2- perform diagnosis , prevention and treatment in the mixed dentition stage

c)Professional and Practical Skills:

By the end of the course the student should be able to:

- c1-distinguish accurately underlying dento-skeletal abnormalities by analyzing cephalometric radiographs.
- C2- Design and effectively utilize simple removable appliances to interfere with a developing malocclusion (simple removable appliances)
- c3- construct appliances that interfere with abnormal oral habits that affect normal development of occlusion .
- c4- Design and utilize appliances to correct cross bite situations in the primary and mixed dentition .

d)General and transferable skills:

By the end of the course the student should be able to:

- d1- Recognize when and how to refer patients for specialist advise or treatment.
- d2- Communicate with other healthcare professionals both verbally and in globally accepted written formats .
- d3- Recognize moral and ethical responsibilities involved in the provision of care to individual patents and to community

3. Course Contents:

	TOPIC
1	Tissue reaction and biomechanical principles of tooth movement
2	Orthodontic appliance design
3	Anchorage
4	Preventive Orthodontics
5	Interceptive Orthodontics
6	Mixed dentition management
7	Orthodontic retention and relapse
8	Iatrogenic effects in orthodontics
10	Revision

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Clinical and small group sessions
- 4-3. Workshops
- 4-4. Practical demonstrations, Practice of skills , and discussions
- 4-5. Lectures :
- 4-6. The lectural hall on the 3rd floor of the faculty of oral and dental medicine;
Once per week from 12pm to 1pm
- 4-7. Small Group sessions and activities ;
- 4-8. Each term, students are divided into 12 equal groups, each group being assigned to a two hour small group session once per week. Students will be divided into two groups during each session.
- 4-9. Workshops
- 4-10. During the course seven workshops will be given covering different topics. Workshops will include lecturing followed by hand on training. Each topic will be given six times within a one week period.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Diagnostic examination to assess ability of data collection , analysis and formulation of a treatment plan
- 5-3. Oral examination to assess knowledge and understanding (and assessment general and professional skills)

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course notes
 - Department books : available for students to purchase from department secretary.
 - Overhead projectors, slides and computer presentation used during teaching
- 6-2. Essential books (Text Books)
 - "Contemporary orthodontics" by William R. Proffit, Henry W. Fields Jr., 5th edition; April (2012).

7. Facilities Required for Teaching and Learning

- Lecture hall at the Faculty of oral & dental medicine. Writing board, flip chart, overhead and slide projectors are available. Data show is available with prior arrangements.
- Small group classes
- practical lab. overhead projectors and data show are available for use when needed.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√					√		
	a2	√					√		
	a3	√					√		
	a4			√	√		√	√	
	a5	√					√		
	a6	√		√			√		
	a7	√		√	√		√	√	
	a8	√			√		√		
	a9	√		√	√		√	√	
	a10	√			√		√		
	a11	√			√		√		
	a12	√			√		√		
b	b1	√			√		√		
	b2	√			√		√		
c	c1	√		√	√		√		
	c2				√		√		
	c3	√			√		√		
	c4	√		√	√		√		
d	d1				√				
	d2				√				
	d3				√				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√	√		√			
	a2	√	√	√		√			
	a3	√	√	√		√			
	a4			√		√	√		
	a5	√	√	√		√			
	a6	√	√	√		√			
	a7	√	√	√		√			
	a8	√	√	√		√			
	a9	√	√	√		√			
	a10	√	√	√		√			
	a11	√	√	√		√			
	a12	√	√	√		√			
b	b1	√	√	√		√			
	b2	√	√	√		√			
c	c1	√	√	√		√			
	c2			√		√			
	c3	√	√	√		√			
	c4	√	√	√		√			
d	d1		√						
	d2		√						
	d3		√						

Course Coordinator :

Head of Department : Prof. Yahya Mostafa

Date: / /

**Future University
Faculty of Oral and Dental Medicine**

**Course specifications
For Oral Radiology
MPDR 431**

Course Specifications

**Program on which the course is given: Bachelor of Oral and Dental medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, diagnosis, and Radiology
Academic Year /Level:4th year / 7th semester**

A- Basic Information

Course Title	Science of Dental Material
Code	MPDR 431
Credit Hours	3
Lecture /week	2
Practical / week	2
Total	4

Pre-requisite: Preclinical stage

B- Professional Information

1. *Overall Aims of Course*

1. To provide the students with basic information related to X-ray nature, production, equipment and materials used in the process of radiography.
2. To demonstrate and train students to perform all intra oral radiographic examination in terms of exposing, processing, and handling radiographs.
3. To enable the students to interpret radiographic images used in the dental profession.
4. To appreciate safety procedures to avoid hazards to themselves, to the patients and to the environment.

2. *Intended Learning Outcomes of Course (ILOs)*

A-Knowledge and Understanding

By the end of this course the student will be able to:

- 10- Recognize radiation physics, including X-rays production, different components of X-ray machine and the various properties of X-rays
- 11- State how images are produced and different image characteristics as density, contrast, sharpness and resolution.

- 12- List types of radiographic films by size, number and speed (intra-oral and extra-oral), screens, its different types and structure.
- 13- Explain the principles of all the intra oral radiographic techniques
- 14- Describe how images are produced by processing and describe different processing techniques and chemicals.
- 15- Describe the digital radiography systems and their advantages and uses.
- 16- Explain the principles of extra-oral radiographic techniques and understand their indications.
- 17- Recognize different radiographic pitfalls, their causes and method of overcome.
- 18- Identify anatomical landmarks related to various intra-oral and extra-oral radiographs.
- 10- Discuss major principles of radiation biology, doses, and methods of protection with special emphasizes on the ALARA concept
- 11- Discuss the methodological approach and principles of radiographic interpretation and description of lesions.
- 12- Describe different carious lesions and radiographic methods of their evaluation.
- 13- Recognize different periodontal lesions and radiographic methods of their evaluation.

B. Intellectual Skills:

By the end of this course the student will be able to:

- 1- Make decisions regarding proper radiographic prescription.
- 3- Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs.

C-professional and practical skills

By the end of this course the student will be able to:

- 9- Apply their knowledge and skills in radiographic techniques and processing to acquire excellent diagnostic quality radiographs
- 10- Complete full mouth periapical, bitewing, and occlusal survey images (CMS) for adults and children.
- 11- Perform different extra-oral radiographic techniques by applying proper principles and interpretation
- 12- Point out normal radiographic anatomy and variations as well as common dental pathology seen on intraoral radiographs.
- 13- Learn the radiographic interpretation basics to enhance diagnostic skills and also on extra-oral radiography, panoramic radiography and digital radiography.
- 14- Identify different radiographic carious lesions.
- 15- Perform radiographic assessment means of different periodontal lesions.
- 16- Interpret radiographs of some teeth-related syndromes, as well as traumatic injuries of teeth and jaws.

D-General skills:

By the end of this course the student will be able to:

- 5- Work effectively in a group or team to achieve goals.
- 6- Show initiative and leadership abilities.
- 7- Gather, interpret and analyze information
- 8- .Manage time effectively

2. Course Contents:

Topics and Tentative Schedule:

w	Lecture Sunday 9-11 am @301	Lab/ clinic Mon 9-11 am @
1	<ul style="list-style-type: none"> • Introduction to the course • Nature and types of radiation • X ray machine and production of x ray 	<ul style="list-style-type: none"> • X ray machine accessories • Image characters • Exercises on image characters Demo x ray machine parts, accessories, and their types
2	<ul style="list-style-type: none"> • Dental film 	<ul style="list-style-type: none"> • Processing • Demo processing
3	IO techniques (periapical)	<ul style="list-style-type: none"> • Demo IO techniques • Infection control
4	<ul style="list-style-type: none"> • IO techniques (bitewing and occlusal) • Object localization • Object localization exercises • Digital radiography 	<ul style="list-style-type: none"> • Periapical upper and lower central
5	<ul style="list-style-type: none"> • IO landmarks(mandible and maxilla) 	<ul style="list-style-type: none"> • Periapical upper and lower canine
6	<ul style="list-style-type: none"> • EO views • EO landmarks • <u>1st midterm exam(15 marks)</u> 	<ul style="list-style-type: none"> • Periapical upper and lower molars
7	<ul style="list-style-type: none"> • Panoramic radiography (principle, technique and errors) • Panoramic anatomy 	<ul style="list-style-type: none"> • Common technique and processing errors
8	<ul style="list-style-type: none"> • Alternative and specialized imaging modalities • <u>Last date of deliver EO landmarks (4marks)</u> 	<ul style="list-style-type: none"> • Demonstration on panoramic and cephalometric machines and radiography
9	<ul style="list-style-type: none"> • Alternative and specialized imaging modalities(cont.) 	<ul style="list-style-type: none"> • Dosimetry • Biological effects of radiation <u>Radiation protection(group presentations 4 marks)</u>
10	<ul style="list-style-type: none"> • Principles of interpretation • Description of a lesion • Basics of DD 	Bitewing premolars and molars
11	<ul style="list-style-type: none"> • Caries • <u>2nd midterm exam(15 marks)</u> 	Processing of requirements
12	<ul style="list-style-type: none"> • Periodontal diseases • Periapical lesions 	Processing of requirements
13	Traumatic injuries	Writing radiographic report (caries, periapical, PD)
14	Practical exams <u>Last date of deliver processed radiographs (12 marks)</u>	

Practical outline

By the end of the course, students will be required to have performed and interpreted an adult full-mouth set of radiographs, two panoramic views (including one edentulous or partially edentulous case).

4. Teaching and Learning Methods

- 4-4 Lectures by PPS presentations
- 4-5 Open – discussion lectures
- 4-6 Practical training:

5. Student Assessment Methods

- 5-1. continuous formative quizzes to assess knowledge and understanding
- 5-2. Group work to assess practical skills, team work, and self-presentation
- 5-3. Assignment to assess general and transferrable skills
- 5-4. Case studies, clinical requirements, and reports to assess clinical skills
- 5.5. Final Written examination to assess knowledge and understanding.
- 5-6. Final Oral examination to assess knowledge and understanding, and personal conduct.
- 5-7. final clinical examination to assess practical skills
- 5-8. Structured feedback to assess practical skills

Assessment Schedule

- Assessment 1: formative quiz (week 3)
- Assessment 3: first midterm (written/week 5)
- Assessment 4: group presentation (pps /week 8)
- Assessment 5: formative quiz (week 9)
- Assessment 6: second midterm (spotting/ week 11)
- Assessment 7: practical exam (week 14)
- Assessment 8: Final written & oral exam (week 15)

Weighting of Assessments

1 st Mid-term Examinations	15 %
2 nd Mid-term Examinations	15 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>
Total	100%

6. List of References

6-1. Course Notes : Hand out : available for students from the department

6-2 Recommended (Text Books)

Essentials of dental radiography and radiology, By Eric Waites, 5th ed, Churchill Livingstone 2013

6-3 presentation: available for the students from the department

7. Facilities Required for Teaching and Learning

8- data show projector

9- periapical x ray machines with equipment

10- processing dark room with equipment

11- panoramic and cephalometric machine with equipment

12- viewer boxes

13- lecture hall

14- small group lecture room

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓							
	a2		✓						
	a3	✓							
	a4								
	a5		✓	✓	✓				
	a6	✓	✓						
	a7	✓							
	a8		✓	✓					
	a9		✓	✓					
	a10						✓		✓
	a11	✓							
	a12	✓	✓						
	a13	✓	✓						
b	b1		✓						
	b2		✓						
c	c1				✓	✓			
	c2			✓		✓			
	c3			✓					
	c4		✓	✓					✓
	c5		✓	✓					✓
	c6		✓	✓					
	c7		✓	✓					
	c8		✓	✓					
d	d1				✓				
	d2				✓				
	d3				✓				
	d4				✓				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓	✓			✓			
	a2	✓	✓			✓			
	a3	✓	✓			✓			
	a4	✓	✓		✓	✓			
	a5	✓	✓		✓	✓			
	a6	✓	✓	✓		✓			
	a7	✓	✓	✓		✓	✓		
	a8	✓	✓	✓		✓			
	a9	✓	✓			✓			
	a10	✓	✓			✓		✓	
	a11	✓		✓		✓			
	a12	✓	✓	✓		✓			
	a13	✓	✓	✓		✓			
b	b1	✓	✓						
	b2		✓	✓					
c	c1		✓		✓				
	c2		✓		✓				
	c3	✓	✓	✓			✓		
	c4	✓	✓	✓		✓	✓		
	c5		✓			✓			
	c6		✓		✓	✓			
	c7		✓		✓	✓			
	c8	✓	✓		✓				
d	d1				✓				
	d2				✓				
	d3				✓				
	d4				✓				

Course Coordinator: Prof. Gihan Omar**Head of department: Prof. Shahira Elashery****Date of Approval: 3/9/2017**

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Diagnosis and Radiology
MPDR 432**

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, Diagnosis and
Academic Year /Level:4th year / 8th semester

Radiology

A- Basic Information

Course Title	Oral Diagnosis
Code	MPDR 432
Credit Hours	3
Lecture /week	2
Practicals / week	2

Pre-request: MPDR 431

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- a) To foster knowledge that governs the principle of oral diagnosis.
- b) To provide opportunities for review and analysis of a wide range of patients chief complaints.
- c) To expand students analytical skills relative to clinical signs and symptoms and adjunctive special investigations of oro-dental diseases.
- d) To apply and predict the knowledge obtained for the appropriate diagnosis of oro-dental diseases.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the program the student should be able to:

- a1- Define different types of oral diagnosis.
- a2- State scientific rules for obtaining patient history.
- a3- Review different types of chief complaints.
- a4- Explain different techniques of oral examination.
- a5- Recognize the different instruments, devices and methods used in the field of oral diagnosis.
- a6- Recognize normal landmarks both extraoral and intraoral to be able to detect abnormalities.
- a7- Recall different laboratory tests which aid the dentist in diagnosis of different oral lesions.

b) Intellectual Skills:

By the end of the program the student should be able to:

- b1- Differentiate between the different types of oral diagnosis.

- b2- Compare between different methods of history taking.
- b3- Prepare different history taking for different chief complaints.
- b4- Classify head and neck lymph nodes.
- b5- Interpret signs and symptoms and physical findings in terms of their anatomic, pathologic, and functional diagnostic significance.
- b6- Propose different laboratory investigations that aid in diagnosis of different systemic conditions.

c) Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Practice a comprehensive extraoral and intraoral examination including head and neck, oral hard and soft tissues.
- c2- Use different instruments and techniques of clinical examination and recognize their limitations and hazards and obtain vital signs properly.
- c3- Choose the appropriate laboratory investigations that aid in the diagnostic process.
- c4- Prepare a prioritized list of tentative diagnosis, differential diagnosis and final diagnosis of each presented chief complaint/s.
- c5- Apply infection control policies.

d) General and Transferable Skills:

By the end of the program the student should be able to:

- d1-Focus on task and prioritize and schedule responsibilities .
- d2-Interacts appropriately with peers and cooperates with others.

3. Course Contents:

Ser.	TOPIC
1	Introduction and scope of oral diagnosis
2	Patient history
3	Methods of clinical examination
4	Extraoral examination
5	Intraoral examination
6	Laboratory investigations

Topics and Tentative Schedule:

Week	Lecture	Clinic schedule
1 st week	Patient History: Types of diagnosis, Diagnostic terms, Methods for obtaining case history: Types of questions, Aspects for effective and successful interview	Patient History
2 nd week	Patient identification, Chief complaint, Common chief complaints, History of chief complaint	Extra- and Intraoral Examination
3 rd week	Swelling as a chief complaint, Bleeding as a chief complaint, Dental history, Family history, Social history	Demo. Lymph node and TMJ Examination
4 th week	Personal habits, Medical history, Review of	CASES

	systems	
5 th week	1st midterm	CASES
6 th week	<u>Extraoral examination</u> Examination techniques, General appraisal of the patient, Skull and cranium, Causes of facial asymmetry, Face, Eyes, Nose, Ears, Hair, Skin, Arms and hands	CASES
7 th week	TMJ, Muscles of mastication (masseter, temporalis), General rules for neck examination, Sternocleidomastoid muscles, Classification of lymph nodes, Causes of lymph node enlargement	QUIZ + CASES
8 th week	<u>Intraoral examination:</u> General appraisal , Buccal mucosa, Lips and labial mucosa, Buccal mucosa, Buccal vestibule	CASES
9 th week	2nd midterm	CASES
10 th week	Hard palate, Soft palate, Oropharyngeal region, Floor of mouth, Tongue	CASES
11 th week	<u>Laboratory investigations</u> RBC and WBC examination	CASES
12 th week	Platelet examination, Tests for bleeding	<i>FINAL EXAM PRACTICAL</i>
13 th week	Tests for diabetes, Liver and Kidney diseases	<i>FINAL EXAM PRACTICAL</i>

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)

Assessment 3: practical exam
Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Midterm practical examination	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%
Any formative only assessments	

6. List of References

6-1. Course notes

6-2. Essential Books (Text books)

- Strategies in Dental Diagnosis and Treatment Planning, *Robert B Morris*, 2004.
- Principles of Oral Diagnosis; *Gary C Coleman; John F Nelson, Illustrated Edition, 1993.*

6-3. Recommended books

- Clinical problem solving in dentistry; *1st Edition, 2002.*

6-7. Periodicals, Web Sites,.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- Data show is available

Teaching and Learning Methods:

Code	Teaching and Learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	-	-	-	-	*	-
	a2	*	*	-	*	*	-	*	-
	a3	*	*	-	*	*	-	*	-
	a4	*	*	-	*	*	-	*	-
	a5	*	*	-	*	*	-	*	-
	a6	*	*	-	*	*	-	*	-
	a7	*	*	-	*	*	-	*	-
b	b1	*	*	-	-	-	-	-	-
	b2	*	*	-	-	-	-	-	-
	b3	*	*	-	-	-	-	-	-
	b4	*	*	-	-	-	-	-	-
	b5	*	*	-	-	-	-	*	-
	b6	*	*	-	-	-	-	*	-
c	c1	*	*	*	*	*	-	-	-
	c2	-	*	*	*	*	-	-	-
	c3	-	*	*	*	*	-	*	-
	c4	-	*	*	*	*	-	-	-
	c5	-	*	*	*	*	-	-	-
d	d1	-	-	-	*	*	-	-	-
	d2	-	-	-	*	*	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	-
	a2	*	*	-	-	*	*	*	-
	a3	*	*	-	-	*	*	*	-
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	-
b	b1	*	*	-	*	*	*	*	*
	b2	*	*	-	*	*	*	*	*
	b3	*	*	-	*	*	*	*	-
	b4	*	*	-	*	*	*	*	-
	b5	*	*	-	*	*	*	*	-
	b6	*	*	-	*	*	*	*	*
c	c1	-	*	-	*	-	-	*	-
	c2	-	*	-	*	-	-	*	-
	c3	-	*	-	*	-	-	*	-
	c4	-	*	-	*	-	-	*	-
	c5	-	*	-	*	-	-	-	-
d	d1	-	-	-	*	-	-	-	-
	d2	-	-	-	*	-	-	-	-

Course Coordinator: Prof. dr. Mona Darhous

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

Course Specifications

Endodontics

CONS 534

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Endodontics

Academic Year / Level :5th year / 9th semester

A- Basic Information

Course Title	Endodontics
Code	CONS 534
Credit Hours	2
Lecture /week	1
Practicals / week	3
Total	4

Pre-requisite: CONS434

B- Professional Information

1. Overall Aims of Course

- Demonstrate sound clinical judgment in the diagnosis, selection of cases for treatment, and formulating a treatment plan for individual cases
- Be competent in performing root canal treatment clinically in uncomplicated single and multicanaled human permanent teeth with pulpal and periradicular including necrotic pulp with or without periradicular involvement.
- Provide appropriate emergency treatment for the relief of symptoms associated with pulpal and periradicular diseases.
- Reach level of competency both diagnostically and technically with the capability to perform self-evaluation.
- Be aware of preventive techniques for diseases and conditions involving the pulpal and periradicular tissues in permanent and young permanent teeth.
- Be familiar with etiology of tooth discoloration and perform appropriate bleaching procedures

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

by the end of the course students should be able to:

- a1)- Describe conditions for which root canal treatment is indicated and contraindicated

- a2)- Identify factors that might require referral for consultation with a physician or dental specialist.
- a3)- Describe the clinical and radiographic features of bone and teeth after a traumatic event.
- a4)- Describe the subjective and objective examination of patients with dental injuries and interpret the findings
- a5)- Describe appropriate treatment strategies (both at the time of injury and at follow up) for various types of traumatic injuries.
- a6)- Identify the criteria for success or failure of various treatment modalities of traumatic injuries.
- a7)- Describe the indications, prognosis and procedures for vital pulp therapy
- a8)- Identify situations in which a tooth with an open apex requires vital pulp therapy or root end closure and root canal therapy
- a9)- Describe how to perform root-end closure and recognize the success or failure of treatment of an open apex
- a10)- Describe requirements of an adequate restoration and how it protects and seals coronally.
- a11)- Identify restorative options before commencing root canal treatment
- a12)- List the principle temporary filling materials and describe techniques for their
- a13)list the different bleaching techniques
- a14)identify different bleaching agents

b) Intellectual Skills:

- b1)Recognize when it is appropriate to plan adjunctive endodontic treatment such as vital pulp therapy, bleaching root amputation, hemisection, endodontic surgery, apexification, orthodontic extrusion, and retreatment
- b2)Differentiate between different types of root resorption
- b3)Decide appropriate treatment plan

c) Professional and Practical Skills:

- c1- The student will be able to perceive the patients and prepare the operating position and field accurately (Either using the two hand technique or the four hand technique)
- c2- perform all cavity preparations design to receive different restorative materials according to the patient conditions.
- c3- manage emergencies
- c4- prescribe drugs.
- c5- perform adequate subjective and clinical objective and radiographic examination for the identification of pulp and periradicular diseases and in the selection of cases suitable for endodontic treatment.
- c6- perform non-surgical root canal treatment according to the selected appropriate treatment plan for the clinically diagnosed conditions of irreversible pulpitis or necrotic pulps with or without periradicular involvement. They should be able to arrange and employ the appropriate instruments, materials and techniques
- c7- practice film placement and cone alignment (direct and horizontal shift)and film processing for the clinical cases during endodontic treatment and reading the radiograph.

d) General and transferable skills

By the end of the course, students should demonstrate professional attitudes in communication with patients, other members of the dental staff and other health professionals.

3. Course Contents:

Ser.	TOPIC
1	Case selection for endodontic treatment and when and how to refer
2	Vital pulp therapy
3	Management of traumatic dental injuries
4	Root resorption
5	Bleaching discolored teeth

Topics and Tentative Schedule:

Weeks	Topics
1st	Case selection
2nd	Case selection
3rd	Vital pulp therapy
4th	Vital pulp therapy
5th	Vital pulp therapy
6th	1 st mid-term
7th	Traumatic injuries
8th	Traumatic injuries
9th	Traumatic injuries
10th	Root resorption
11th	2 nd mid-term
12th	Root resorption
13th	bleaching

4. Teaching and Learning Methods

- 4-1. Methods used
- 4-2. Lectures
- 4-3. Clinical training
- 4-4. Demonstrations
- 4-5. Small group discussion

5. Student Assessment Methods

- 5-1. Written examination short questions, multiple choice assignments, quizzes to assess knowledge and understanding.
- 5-2. Oral examination to assess clinical skills
- 5-3. Practical exam to assess intellectual skills & General and transferable skills

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course Notes.
- 6-2. Essential Books (Text Books) Endodontics by Ingle
Library, recommended books:
- 6-3. Pathways of the pulp by Stephan Cohen and Richard Burns (Library)
- 6-4. Principles and practice of endodontics by torabinejad
- 6-5. Periodicals, Web Sites as EKB & pubmed

7. Facilities Required for Teaching and Learning

- Facilities used for teaching this course include:
- Lecture Hall at the 2nd floor of the dental school. Writing board is available, overhead slide projector, data show is available with prior arrangement.
- Department clinic is located at the 1st floor of the old building and seventh floor of the new building. X Ray machine is available with the processing facility of films
- Students' clinic at the third floor of the old building (work in the clinic is scheduled in according with the operative and fixed prosthodontics departments who also work in the same clinics.
- Library
- Located at the second floor of the dental school

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	*			*	*
	a2	*	*	*		
	a3	*	*	*		
	a4	*	*			
	a5	*		*		
b	b1				*	*
	b2				*	*
	b3				*	*
c	c1				*	*
	c2				*	*
	c3				*	*
d	d1				*	*
	d2				*	*

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination

Assessment Plan:

ILOs		5-1	5-2	5-3
a	a1	*	*	
	a2	*	*	
	a3	*	*	
	a4	*	*	
	a5	*	*	
b	b1			*
	b2			*
	b3			*
c	c1			*
	c2			*
	c3			*
d	d1			*
	d2			*

Course Coordinator :

Head of Department : Prof. Medhat Kataya

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications for Endodontics

CONS 535

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Endodontics

Academic Year/level : 5th year / 10th semester

A- Basic Information

Course Title	Endodontics
Code	CONS 535
Credit Hours	2
Lecture /week	1
Practicals / week	3
Total	4

Pre-requisite: CONS534

A- Overall Aims of Course

- 1-Be competent in performing root canal treatment clinically in uncomplicated single and multicaueled human permanent teeth with pulpal and periradicular including necrotic pulp with or without periradicular involvement.
- 2-Provide appropriate emergency treatment for the relief of symptoms associated with pulpal and periradicular diseases.
- 3-Be aware of cases that need surgical treatment instead of the conventional one .
- 4-Provide management of endodontically treated teeth.
- 5-Be familiar with diagnosis and technical procedures involved in endodontic surgery
- 6-Be familiar with interrelationship with other specialties example; periodontal, restorative, prosthodontic, and orthodontic.
- 7-Consider the possibility of referral to a specialist in complicated cases
- 8-Develop and acquire general skills and attitude including: health safety and infection control, communication skills (patient – staff member and with other healthcare professionals), Life-long learning, ethical behavior and the profession’s wider responsibility towards the community as a whole.

2.Intended Learning Outcomes of Course(ILOs)

a)Knowledge and understanding :

- a1- By the end of the course students should be able to state the anatomic pathways of communication between the dental pulp and the periodontium
- a2- Describe the effects of pulpal disease and endodontic procedures on the periodontium.
- a3- Describe the effects of periodontal disease and procedures on the pulp.
- a4- Describe the role of the restoration in the longevity of endodontically treated teeth and the structural importance of remaining tooth structure.
- a5- Describe requirements of an adequate restoration and how it protects and seals coronally.
- a6- Identify restorative options before commencing root canal treatment
- a7- Describe the role of the restoration in the longevity of endodontically treated teeth and the structural importance of remaining tooth structure.
- a8- List indications and contraindication for endosurgery.
- a9- List indications and steps for different flap , sutures designs.
- a10- Classify different types of analgesics.
- a11- List different combinations, dosages of antibiotics and right instances to prescribe them.

b) Intellectual Skills:

- b1- Select cases suitable for endodontic treatment.
- b2- Select all cavity preparations design to receive different restorative materials according to the patient conditions.
- b3- Select appropriate management techniques for failed restorations according to principles.

c) Professional and Practical Skills:

- c1- The student will be able to perceive the patients and prepare the operating position and field accurately (Either using the two hand technique or the four hand technique).
- c2- perform nonsurgical root canal treatment according to the selected appropriate treatment plan for the clinically diagnosed conditions of irreversible pulpitis or necrotic pulps with or without periradicular involvement. They should be able to arrange and employ the appropriate instruments, materials and techniques.
- c3- student should be able to perform all cavity preparations designs to receive different restorative materials according to the patient conditions.
- c4- student should be able to practice film placement and cone alignment (direct and horizontal shift)and film processing for the clinical cases during endodontic treatment.
- c5- Student should be able to give the patient the appropriate advice to prevent disease recurrence.
- c6- By the end of the course, students should be able to manage emergency case and practice supplemental anesthesia techniques if possible.
- c7- By the end of the course, students should be able to write a prescription for managing pain and infections.
- c8- By the end of the course, students should be able to write a referral form for medical consultation if needed.

c9- students should be able to interpret the preoperative, working length determination, master cone and postoperative periapical X Ray films.

d)General and transferable skills

d1- Orally convey information to others.

d2- Handle complaints.

d3-Speak in public.

3. Course Contents:

er.	TOPIC
	EndoPerio
	EndoSurgery
	Non-surgical retreatment
	Restoration of Endodontically treated teeth
	Therapeutics

Topics and Tentative Schedule:

Weeks	Topics
1 st	EndoPerio
2 nd	EndoPerio
3 rd	Non-surgical retreatment
4 th	Non-surgical retreatment
5 th	Non-surgical retreatment
6 th	1 st midterm
7 th	Restoration of Endodontically treated teeth
8 th	Restoration of Endodontically treated teeth
9 th	2 nd midterm
10 th	EndoSurgery
11 th	EndoSurgery
12 th	EndoSurgery
13 th	Therapeutics

4. Teaching and Learning Methods

4-1. Lectures

4-2. Clinical training

4-3. Demonstrations

4-4. Small group discussion

5. Student Assessment Methods

- 5-1. Written examination
- 5-2. Oral examination
- 5-3. Practical exam
- 5-4. Quizzes
- 5-5. Log book

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Mid Term Practical Examination	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course Notes:
Department Books available for all students.
- 6-3. Essential Books (Nisha garg)
- 6-4. Recommended Books:
Endodontics by Ingle (Library), Pathways of the pulp by Stephan Cohen and Richard Burns (Library) and Principles and practice of endodontics by torabinejad

7. Facilities Required for Teaching and Learning

- Facilities used for teaching this course include:
Lecture Hall at the second and third floor of the dental school. Writing board is available, overhead slide projector, data show is available with prior arrangement.
- Department clinic is located at the ground floor of the building. X Ray machine is available with the processing facility of films. Digora and endodontic surgical microscope are also available. (work in the clinic is scheduled in according with the operative department who also work in the same clinics

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Practical (Laboratory) Training and Requirements
4-3	Demonstrations
4-4	Small group discussion

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
A	a1	✓			
	a2	✓			✓
	a3	✓			
	a4	✓			
	a5	✓		✓	✓
	a6	✓		✓	✓
	a7	✓			
	a8	✓			
	a9	✓	✓	✓	✓
	a10	✓		✓	✓
	a11	✓		✓	✓
B	b1	✓	✓	✓	✓
	b2	✓	✓	✓	✓
	b3	✓	✓	✓	✓
C	c1		✓	✓	
	c2	✓	✓	✓	✓
	c3		✓	✓	
	c4		✓	✓	
	c5		✓	✓	
	c6	✓			
	c7	✓	✓	✓	✓
	c8	✓	✓	✓	✓
	c9	✓	✓	✓	✓
d	d1	✓		✓	✓
	d2	✓		✓	✓
	d3	✓		✓	✓

Assessment methods

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Quizzes (continuous assessment)
5-5	Log book

Assessment Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
A	a1	✓	✓		✓	
	a2	✓	✓		✓	
	a3	✓	✓		✓	
	a4	✓	✓		✓	
	a5	✓	✓		✓	
	a6	✓	✓		✓	
	a7	✓	✓		✓	
	a8	✓	✓		✓	
	a9	✓	✓		✓	
	a10	✓	✓		✓	
	a11	✓	✓		✓	
B	b1	✓	✓		✓	
	b2	✓	✓		✓	✓
	b3	✓	✓		✓	✓
C	c1	✓	✓		✓	✓
	c2	✓	✓		✓	✓
	c3		✓	✓		✓
	c4	✓	✓		✓	✓
	c5	✓	✓		✓	✓
	c6	✓	✓		✓	✓
	c7	✓	✓		✓	
	c8	✓	✓	✓	✓	
	c9	✓	✓	✓	✓	✓
D	d1		✓			
	d2	✓	✓	✓	✓	✓
	d3		✓			

Course Coordinator : Prof. Medhat Kataya

Head of Department : Prof. Medhat Kataya

Date: 26 / 11 /2017

Course Specifications for
Clinical Restorative Dentistry
CONS 515

Course Specifications

Program on which the course is given: Operative Dentistry
Academic Year /Level: 5th year / 9th semester

A- Basic Information

Course Title	Clinical restorative dentistry
Code	CONS 515
Credit Hours	3
Lecture /week	1
Practicals / week	6
Total	7

Pre-requisite: CONS414

B- Professional Information

1. Overall Aims of Course

This course is designed to expand the student and knowledge through the available subjects that include: conservative approach, esthetic considerations, non carious lesions, bonding to tooth tissues.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

- a1-understand the conservative approach in restorative dentistry.
- a2-Compare between Black's principles of extension for prevention and the recent conservative approach.
- a3- Discuss the main causes of the actual shift in the concepts and record.
- a4-Sort the advanced diagnostic tools and the minimal and non-invasive cutting tools required to apply the conservative and biological model of treatment.
- a5- Sketch the recent conservative cavity designs and estimate when to be Used.
- a6-List the components of the esthetic formula, causes of esthetic defects and objectives of restoring esthetic
- a7-Describe the mechanism of color perception, and color parameters.
- a8-List the factors affecting the optical qualities of an object and the requirements for correct color determination.
- a9-Solve some esthetic problems and plan for esthetic cavity design using different restorative materials and techniques.
- a10-List the factors essential for a successful adhesive junction and list the requirement for an ideal dentin bonding agent.
- a11-Outline the development performed in dentin bonding systems and classify them.

- a12-Discuss factors affecting bonding to tooth structure.
- a13-Classify the indirect restorations and knowledge the indications and contraindications of indirect esthetic inlays.
- a14-Outline different techniques for fabrication of composite resin inlays and the advantage and disadvantage.
- a15-Define bonding and discriminate between different bonding mechanisms.
- a16-Describe different types of ceramic inlays.
- a17-Explain the placement technique of indirect composite and ceramic inlays.
- a18-Point out causes of different non carious lesions and describe how they appear clinically.
- a19-Report on the treatment plan of different non-cariou lesions.

b) Intellectual Skills:

- b1-compare between Black's principles of extension for prevention and the conservative approach. recent
- b2-categories the limiting problems in restoring esthetic and to what extent these problems can be solved.
- b3-solve some esthetic problems and plan for esthetic cavity design using different restorative materials and techniques.
- B4-solve some esthetic problems and plan for esthetic cavity design using different restorative materials and techniques.
- b5-compare between bonding to enamel and bonding to dentin and explain between the properties of the tooth structure and its influence on the bonding mechanism.
- B6-classify the indirect restorations and knowledge the indications and contraindications of indirect esthetic inlays.
- B7-knowledge and differentiate between different non-cariou lesions.

c) Professional and Practical Skills:

- c1-the student will be able to solve some esthetic problems and plan for esthetic cavity design using different restorative materials and techniques.
- c2- to perform all cavity preparations design to receive different restorative materials according to the patient conditions.

d) General and transferable skills

- d1- Demonstrate appropriate professional attitudes and behavior in dealing with staff members & helping personnel and patients.
- d2- Apply the information technology as a mean of communication for data collection and analysis and for life-long learning

3.Course Contents:

Ser.	TOPIC
1	Conservative approach in restorative dentistry
2	Esthetic considerations in operative dentistry
3	Bonding to tooth tissues
4	Management of non carious lesions

Week	Topic
------	-------

1	Conservative Approach (1)
2	Conservative Approach (2)
3	Conservative Approach (3)
4	Bonding and Adhesion (1)
5	Bonding and Adhesion (2)
6	1st Mid-Term Exam
7	Bonding and Adhesion (3)
8	Esthetic Considerations in Operative Dentistry (1)
9	Esthetic Considerations in Operative Dentistry (2)
10	Esthetic Considerations in Operative Dentistry (3)
	SINAI LIBERATION DAY
11	2nd Mid-Term Exam
	LABOUR DAY
12	Esthetic Considerations in Operative Dentistry (4)
	Coptic Easter & Sham El-Nesseem Holiday
13	Management of Non-Carious Lesions (1)
14	Management of Non-Carious Lesions (2)
15	Revision

4. Teaching and Learning Methods

4-1. Lectures, assignments, Laboratory small group tutorials.

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. Oral examination to assess knowledge and intellectual skills
- 5-3. Practical examination to assess practical skills & general skills
- 5-4 practical Requirements.

Assessment Schedule

Assessment 1: midterm (written) in April

Assessment 2: practical exam in May

Assessment 3: Final written & oral exam in may and June.

Weighting of Assessments

Mid Term Examination	30 %
Practical Requirement	20 %

Oral Examination	10 %
Final Practical Examination	15 %
<u>Final Written Examination</u>	<u>25 %</u>
Total	100%

6. List of References

6-1. Department Hand-Outs : available for all students.
Text:summit Edition 5

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall, computer projections, overhead projectors and transparencies, black and white boards, posters, slides and mock-ups
- 2)- Motor and manipulative skills (Practical skills):
- 3)- Exploratory tools, Burs, dental amalgam restorative material, amalgamators, condensing tools, finishing tools, matrices, wedges, resin composite material, glass ionomer, Zinc phosphate base, and articulating paper.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Clinical Requirements
4-5	E-Learning

Teaching Plan:

ILOS	4-1	4-2	4-3	4-4	4-5
a1	✓	✓	✓		✓
a2	✓	✓			✓
a3	✓	✓			
b1	✓	✓	✓	✓	✓
b2	✓	✓		✓	
b3	✓	✓		✓	✓
c1		✓	✓		✓
c2	✓	✓		✓	
d1		✓	✓		✓
d2		✓	✓		✓

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	✓	✓	✓	✓	✓
	a2	✓	✓		✓	✓
	a3	✓	✓			✓
b	b1	✓	✓	✓	✓	✓
	b2		✓	✓		✓
	b3	✓		✓		✓
c	c1		✓	✓		
	c2	✓		✓		
d	d1			✓		
	d2		✓	✓		

Course Coordinator :Associateprofessor:Dr:shaimaanagii

Head of Department : Prof. EssamAbdelhafez

Date: / /

Course Specifications for Clinical Restorative Dentistry

CONS 516

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Operative Dentistry

Academic Year / Level: 5th year / 10th semester

A- Basic Information

Course Title	Clinical restorative dentistry
Code	CONS 516
Credit Hours	3
Lecture /week	1
Practicals / week	6
Total	7

Pre-requisite: CONS515

B- Professional Information

1. Overall Aims of Course

In this final course the curriculum is tailored to match specific subjects that are the core to the continual improvement of operative dentistry. This curriculum enables the upcoming practicing dentists to expand their skills and knowledge through the available subjects to demonstrate to students how to deal with failures of the restorations and their repair, bleaching, management of root caries, management of cracked teeth, management of mutilated teeth.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

by the end of the course the student is able to :

- a1- Explain the main causes of dentin hypersensitivity and how to be managed in a conservative manner.
- a2-List the components of the esthetic formula, causes of esthetic defects and objectives of restoring esthetic.
- a3-Categories the limiting problems in restoring esthetic and to what extend these problems can be solved.
- a4-Describe the mechanism of color perception, and color parameters.
- a5-List the factors affecting the optical qualities of an object and the requiremenfor correct color determination.

- a6-Outline different techniques for fabrication of composite resin inlays and the advantage and disadvantage.
- a7- Describe different types of ceramic inlays.
- a8-Explain the placement technique of indirect composite and ceramic inlays.
- a9-List the indications for pin retained restorations.
- a10-Explain the mechanism of reinforcement of endodontically treated teeth.
- a11-List the criteria of successful restorations and state the causes of their failure.
- a12-Describe the failure manifestations of contemporary restorations.
- a13-List the indication for repair of contemporary restoration.
- a14-Describe the mechanism of repair for different contemporary restorations.
- a15-Classify the indirect restorations and list the indications and contraindications of indirect esthetic inlays.

b) Intellectual Skills:

By the end of the course the student is able to:

- b1-Design a treatment plan model.
- B2-Solve some esthetic problems and plan for esthetic cavity design using different restorative materials and techniques.
- B3-Classify the indirect restorations and list the indications and contraindications of indirect esthetic inlays
- B4-Differentiate between different types of pins and their techniques.
- B5-Outline the cavity preparation design of badly broken down teeth

c) Professional and Practical Skills:

by the end of the course the student will be able to:

- c1- perceive the patients and prepare the operating position and field accurately (Either using the two hand technique or the four hand technique).
- c2- perform all cavity preparations design to receive different restorative materials according to the patient conditions.
- c3- perform all cavity preparations designs to receive different restorative materials according to the patient conditions.
- c4- deal with failed restorations either by removal or repair according to principles.
- c5- give the patient the appropriate advice to prevent disease recurrence.

(d)General and transferable skills

By the end of the course the student is able to:

- d1- demonstrate appropriate professional attitudes and behavior in dealing with staff members & helping personnel and patients.
- d2- Apply the information technology as a mean of communication for data collection and analysis and for life-long learning.

3. Course Contents:

Week	TOPIC
1	Failure of restorations
2	Failure of restorations
3	Repair of dental restorations
4	Repair of dental restorations
5	Management of badly broken-down teeth.
6	Management of badly broken-down teeth
7	Bleaching
8	Bleaching
9	Root caries
10	Root caries
11	Management of cracked teeth
12	Management of cracked teeth
13	Revision

4. Teaching and Learning Methods

4-1.lectures.

4-2. demonstrations in clinics.

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

5-2. Oral examination to assess knowledge and intellectual skills.

5-3. Practical examination to assess practical skills & general skills.

5-4. assignments.

5-5. practical requirements.

Assessment Schedule

Assessment 1: midterm (written) in April

Assessment 2: practical exam in May

Assessment 3: Final written & oral exam in may and June.

Weighting of Assessments

Mid Term Examinations 30 %

Practical Requirement 20 %

Oral Examination 10 %

Final Practical Examination 15 %

Final Written Examination 25 %

Total 100%

6. List of References

6-1. Department Hand-Outs : available for all students.

6-2. Slides and computer presentations used during teaching.

6-3. textbook(summitt 3rd edition)

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall, computer projections, overhead projectors and transparencies, black and white boards, posters, slides and mock-ups
- 2)- Motor and manipulative skills (Practical skills)

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration in clinics

Teaching Plan:

ILOs		4-1	4-2
a	a1	✓	✓
	a2	✓	✓
	a3	✓	✓
b	b1	✓	✓
	b2	✓	✓
	b3	✓	✓
c	c1	✓	✓
	c2	✓	✓
	c3	✓	✓
d	d1	✓	✓
	d2	✓	✓

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Assignments

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	✓	✓		✓	✓
	a2	✓	✓		✓	✓
	a3	✓	✓	✓	✓	✓
b	b1	✓	✓		✓	✓
	b2	✓	✓	✓	✓	✓
	b3	✓	✓	✓	✓	✓
c	c1			✓		
	c2			✓		
	c3			✓		
d	d1			✓		
	d2			✓		

Course Coordinator :Maha Elbaz

Head of Department : Prof. Essam Abdelhafez

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications for
Clinical Crowns and Bridges
PROS 525

Course Specifications

Program(s) on which the course is given B.D.S
Major or Minor element of programs
Department offering the course Fixed Prosthodontics
Academic Year /Level : 5th year / 9th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	PROS 525
Credit Hours	3
Lecture /week	1
Practicals / week	6
Total	7

Pre-Request **PROS 424**

B- Professional Information

1. Overall Aims of Course

- To educate the students about the fundamentals of esthetics
- To familiarize the student with the principles of occlusion
- To enable students to check and verify all types of fixed restorations.
- To make student acquainted with different types of dental cements.
- To educate students about the recent types of all-ceramic materials and restorations.

2. Intended Learning Outcomes of Course (ILOs)

By the end of this course the students should be able to:

a) Knowledge and understanding :

- a1- Recognize the basics of occlusion.
- a2- Recognize the fundamentals of esthetics.
- a3- Classify different types of dental cements
- a4-. Classify different types of dental ceramics
- a5- Explain the principles of ceramic strengthening and the different types of modern ceramic.

b) Intellectual Skills:

- b1- recognize properly the success and failure during the try in step.
- b2- select the appropriate method for restoration of endodontically treated teeth.
- b3 – Select the proper cement type for the different clinical situations.

c) Professional and Practical Skills:

- c1- Practice the steps of restoration of endodontically treated teeth
- c2- Perform properly the steps of tooth preparation to receive full coverage restoration.

D) General and transferable skills

- d1. Communicate effectively in both oral and written forms
- d2. Manage time effectively

3. Course Contents:

Ser.	TOPIC
1	Restoration of endodontically treated teeth
2	Occlusion
3	Fundamentals of esthetics
4	Cements and cementation procedure
5	All ceramic restorations

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Clinical sessions
- 4-3. Demonstrations
- 4-4 Assignment

5. Student Assessment Methods

- 5-1. written examination to assess knowledge and understanding.
- 5-2. Clinical examination to assess clinical skills, intellectual and general skills
- 5-3. Oral examination to assess knowledge and understanding &
- 5-4 Quizzes

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Clinical exam
- Assessment 4: Final written & oral exam

Weighting of Assessments

1 st Mid Term Examination	15 %
2 nd Mid Term Examination	15 %
Oral Examination	10 %
Practical Examination	15 %
Final Written Exam	25 %
Other types of requirements	20 %
<hr/>	
Total	100 %

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books)

Text books : Rosenteal – Contemporary Fixed Prosthodontics. 5th edition

7. Facilities Required for Teaching and Learning

1)- Lecture Hall

2)- Clinical facilities (specialized outpatient clinic)

3)- Laboratory facilities

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Clinical sessions
4-3	Demonstrations
4-4	Assignment

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			
	a2	√			
	a3	√			
	a4	√			
	a5	√			
b	b1	√			
	b2	√			
	b3	√			
c	c1		√	√	
	c2		√	√	
d	d1				√
	d2				√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Clinical Examination
5-3	Oral examination
5-4	Quizzes (continuous assessment)
5-5	Assignments
5-6	Presentations/Seminars
5-7	Posters
5-8	Other (Please Specify)

Assessment Plan:

ILOs	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√		√	√			
	a2	√		√	√			
	a3	√		√	√			
	a4	√		√	√			
	a5	√		√	√			
	a6	√		√	√			
b	b1	√		√	√			
	b2	√		√	√			
		√		√	√			
c	c1	√	√					
	c2	√	√					
d	d1							
	d2							

Course Coordinator : Dr Shereen Nossier

Head of Department : Prof Ashraf Hussein

Date : / /

Faculty of Oral and Dental Medicine

**Course Specifications for
Clinical Crowns and Bridges
PROS 526**

Course Specifications

Program(s) on which the course is given BDs

Major or Minor element of programs

Department offering the course Fixed Prosthodontics

Academic Year /Level : 5th year / 10th semester

A- Basic Information

Course Title	Clinical Crowns & Bridges
Code	PROS 526
Credit Hours	3
Lecture /week	1
Practicals / week	6
Total	7

Pre-Request: PROS525

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of laminate veneers and resin bonded fixed partial dentures: how to select the case, steps of tooth preparation and the different methods of construction.
- To familiarize the student with biological and periodontal considerations of fixed prosthodontics.
- To enable students to detect the causes of fixed prosthodontic failure and their management.
- To educate students about the care and maintenance aspect of the fixed restorations.
- To familiarize students with the methods of fixed prosthodontics removal and repair.
- To educate the students about the basics of esthetic considerations.

2. Intended Learning Outcomes of Course (ILOs)

By the end of this course the student should be able to:

a) Knowledge and understanding :

a1- Classify different causes of biological, mechanical and esthetic failures of fixed prosthodontic prosthesis.

A2- Describe different methods and techniques of fixed prosthodontics removal and repair.

A3- Identify the principles of esthetics and how to achieve.

A4- Explain the principles of preparations, constructions and clinical applications of esthetic conservative restorations

a5- Describe the care and maintenance procedures .

b) Intellectual Skills:

- b1- Assess properly the success and causes of failure of the final restorations and how to manage.
- B2. Chose the proper management of failed fixed prosthodontic restorations.
- B3 Design proper treatment plan for esthetic restorations.
- B4 recognize the biological consideration of fixed restorations
- B5 recognize the periodontal aspect of fixed prosthesis.

c) Professional and Practical Skills:

- C1- Perform properly the steps of tooth preparations taking into consideration the esthetic principles.
- C2- Practice the different replacement options according to the selected bridge design

d) General and transferable skills

- D1. Utilize different sources for continuing professional development and life-long learning.
- D2. Communicate effectively in both oral and written forms
- D3. Mange time effectively

3. Course Contents:

Ser.	TOPIC
1	Laminate Veneers
2	Resin bonded restorations
3	Biological aspect of fixed prosthodontics
4	Periodontal aspect of fixed prosthodontics
5	Failures of fixed prosthodontics and how to manage.
6	Esthetic considerations of fixed prosthodontics.
7	Repair and Removal of fixed restorations
8	Care and maintenance

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Demonstrations
- 4.3 Clinical classes
- 4-2 assignments

5. Student Assessment Methods

- 5-1. Written examination
- 5-2. Clinical examination
- 5-3. Oral examination
- 5-4 Quizzes

Assessment Schedule

- Assessment 1: 1st Mid Term Written Exam
- Assessment 2: 2nd Mid Term Written Exam
- Assessment 3: Clinical exam
- Assessment 4: Final written & oral exam

Weighting of Assessments

- 1st Mid Term Examination 15 %

2 nd Mid Term Examination	15 %
Oral Examination	10 %
Practical Examination	15 %
Final Written Exam	25 %
<u>Other types of requirements</u>	<u>20 %</u>
Total	100 %

Any formative only assessments

6. List of References

6-1. Course Notes

6-2. Essential Books (Text Books)

Text books : Rosenthiel- Contemporary fixed Prosthodontics , 5th edition 2016

7. Facilities Required for Teaching and Learning

7.1 Lecture Hall

7.2 Clinical facilities (specialized outpatient clinic)

7.3 Laboratory facilities

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Demonstration
4-3	Clinical sections
4-4	assignment

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4
a	a1	√			
	a2	√			
	a3	√			
	a4	√			
	a5	√			
b	b1	√			
	b2	√			
	b3	√			
	b4	√			
	b5	√			
c	c1		√	√	
	c2		√	√	
d	d1-				√
	d2			√	√
	d3			√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Clinical Examination
5-3	Oral examination
5-4	Quizzes

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√		√	√
	a2	√		√	√
	a3	√		√	√
	a4	√		√	√
	a5	√		√	√
b	b1	√		√	√
	b2	√		√	√
	b3	√		√	√
	b4	√		√	√
	b5	√		√	√
c	c1		√		
	c2		√		
d	d1		√		
	d2		√		
	d3		√		

Course Coordinator : Prof . Ashraf Hussein Sherif

Head of Department : Prof . Ashraf Hussein Sherif

Date : / /

**Course Specifications for
Clinical Removable Prosthodontic
PROS 515**

Course Specifications

Program on which the course is given Bachelor of Oral and Dental medicine.

Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Removable Prosthodontics

Academic Year /Level: 5th year / 9th semester

A- Basic Information

Course Title	Clinical advanced complete denture
Code	PROS 515
Credit Hours	3
Lecture /week	1
Practical / week	6
Total	7

Pre-Request: PROS 414

B- Professional Information

1. Overall Aims of Course

This course is designed to introduce the student to different management techniques in advanced complicated removable prosthodontics. The student should manage and treat flat and flabby ridges, and restore edentulism with immediate dentures, over-dentures and single dentures.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

a1- Define the problem of flat and flabby ridges.

a2- Define the rational for using the remaining roots to help preserve the bone and soft tissues underneath overdentures.

a3- List appropriate plan for immediate denture.

a4- Recognize the techniques for construction of single denture.

a5- Describe the management of complete denture wearer complains.

b) Intellectual Skills:

b1- Interpret and manage normal and abnormal situations of the oral structures.

b2- Assess the typical problems of mutilated oral tissues.

b3- Make decisions regarding suitability of different techniques for different advanced edentulous situation.

c) Professional and Practical Skills:

- c1- Effectively diagnose and plan the appropriate treatment sequences for a completely or partially edentulous patient.
- c2- Perform mouth preparation, tooth preparation for construction of partial denture and periodic recall procedures.
- c3- Perform special impression techniques to manage flat and flabby ridges.
- c4- Demonstrate the different techniques for immediate denture construction.

d) General and transferable skills

- d1- Express understanding of patients complain and community problems.
- d2- Communicate effectively both verbally and in writing with other health care professionals to maximize patient benefits and minimize the risk of errors.

3. Course Contents:

Ser.	TOPICS
1.	Flat ridges.
2.	Flabby ridges.
3.	Over-dentures
4.	single dentures
5.	Immediate denture
6.	Dental implants

• **Topics Schedule**

Weeks	Topics		
	content	Lecture	clinical
1 st week	Flat ridges.	1 hours	6 hours weekly
2 nd week	Flabby ridges.	1 hours	
3 rd week	Over-dentures.	1 hours	
4 th week	Over-dentures.	1 hours	
5 th week	Single dentures.	1 hours	
6 th	1 st mid term	1 hours	
7 th	Immediate denture	1 hours	
8 th	Immediate denture	1 hours	
9 th	2 nd mid term	1 hours	
10 th	Dental implants		
11 th	REVISION	1 hours	

4. Teaching and Learning Methods

- 4-1. Lectures, Assignments, laboratory small group tutorials,
- 4-2. Small group sessions:
- 4-3. Clinical sessions.

5. Student Assessment Methods

- 5-1. Written (short essay) examination
- 5-2. M.C.Q exam
- 5-3. Practice examination
- 5-4. Oral examination .

Assessment Schedule

- Assessment 1: 1st Mid term (written)
- Assessment 2: 2nd Mid term (written)
- Assessment 3: Semester Work
- Assessment 4: Clinical exam
- Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Semester Work	20 %
<hr/>	
Total	100 %

Any formative only assessments

6. List of References

- 6-1. Department Hand-Out.
- 6-2. Slides and computer presentations used during teaching.

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall
- 2)- Clinics
- 3)- Computers, data show library

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
	a4	√	√						
	a5	√	√						
b	b1			√		√			
	b2			√		√			
	b3			√		√			
c	c1			√		√			
	c2			√		√			
	c3			√		√			
	c4			√		√			
d	d1					√			
	d2					√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√		√	√			
	a2	√	√		√	√			
	a3	√	√		√	√			
	a4	√	√		√	√			
	a5	√	√		√	√			
b	b1			√	√				
	b2			√	√				
	b3			√	√				
c	c1				√				
	c2				√				
	c3				√				
	c 4				√				
d	d1								√
	d2								√

Course Coordinator:

Head of Department:

Course Specifications for
Clinical Removable Prosthodontic
PROS 516

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery Department offering the program: Faculty of Oral and Dental Medicine

Department offering the course: Removable Prosthodontics department

Academic Year / Level: 5th year / 10th semester

A- Basic Information

Course Title	Maxillofacial Prosthodontics
Code	PROS 516
Credit Hours	3
Lecture /week	1
Practicals / week	6
Total	7

Pre-Request: PROS 516

B- Professional Information

1. Overall Aims of Course

This course is designed to introduce the student to different techniques in maxillofacial prosthodontics. The student will understand the management of maxillary defects either congenital or acquired and the uses and construction of different stents and splints.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

a1- Recognize different congenital and acquired defects, speech appliance and surgical obturators.

a2- Enumerate the sequence of treatment procedures of maxillofacial prostheses.

a3- Understand the functions of oral stents and splints, and how they are constructed.

a4- Recognize the hazards of ionizing radiation and, management of irradiated patients and the need for radiation stents

b) Intellectual Skills:

b1- Interpret and manage congenital and acquired maxillary defects.

b2- Formulate appropriate treatment plan for patients with maxillofacial defects.

b3- Select the suitability of different stents and splints, in different clinical situations.

c) Professional and Practical Skills:

c1- Perform clinical steps in the construction of complete and partial dentures.

c2- Effectively diagnosis and plan the appropriate treatment sequences for a patient with congenital and acquired defects.

c3- Demonstrate understanding of stents, splints and radiotherapy prosthesis

d) General and transferable skills

- d1- Demonstrate appropriate professional attitudes and behavior in dealing with patients
- d2- Differentiate between different treatment plans for different clinical situations.

3. Course Contents:

Ser.	TOPIC
1	Congenital defects
2	Speech defects
3	Acquired defects
5	Stents
6	Splints
8	Radio Therapy and radiotherapy prosthesis.

Topics Schedule

Weeks	Topics		
	content	Lecture	clinical
1 st week	Congenital defects	1 hour	6 hour weekly
2 nd week	Cleft lip and palate	1 hour	
3 rd week	Speech defects	1 hour	
4 th week	Speech appliances	1 hour	
5 th week	Acquired maxillary defects	1 hour	
6 th week	Midyear exam 1 st		
8 th week	Radiation and radiation stents	1 hour	
9 th week	Radiation and radiation stents	1 hour	
10 th week	Stents	1 hour	
11 th week	Midyear exam 2 nd		
12 th week	Splints	1 hour	
13 th week	Revision	1 hour	

4. Teaching and Learning Methods

- 4-a. Lectures,
- 4-b Assignments.
- 4-c. Small group sessions:
- 4-d Clinical sessions

5. Student Assessment Methods

- 5-1. Written (short essay) examination to assess knowledge and understanding.
- 5-2. M.C.Q exam to assess knowledge and understanding.
- 5-3. Clinical examination schedule to assess knowledge and understanding & clinical skills
- 5-4. Oral examination to assess knowledge and understanding and intellectual skills

Assessment Schedule

- Assessment 1: 1st mid term (written)
- Assessment 2: 2nd mid term (written)
- Assessment 3: Semester Work
- Assessment 4: Clinical exam.
- Assessment 5: Final written & oral exam

Weighting of Assessments

Mid-term Examination	30 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Semester Work</u>	<u>20 %</u>
Total	100 %

Any formative only assessments

6. List of References

- 6-1. Department Hand-Outs: available for all students.
- 6-2. Slides and computer presentations used during teaching.

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall
- 2)- Clinics
- 3)- Computers, data show.

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	√	√						
	a2	√	√						
	a3	√	√						
	a4	√	√						
b	b1		√	√	√				
	b2		√	√	√				
	b3		√	√	√				
c	c1		√	√					
	c2		√	√					
	c3		√	√					
d	d1		√	√					
	d2		√	√					

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	√	√			√			
	a2	√	√			√			
	a3	√	√			√			
	a4	√	√			√			
b	b1		√		√				
	b2		√		√				
	b3		√		√				
c	c1				√			√	
	c2				√			√	
	c3				√			√	
d	d1					√			√
	d2					√			√

Course Coordinator:

Head of Department:

Course Specifications
Oral and Maxillofacial Surgery
OMF513

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level: 5th year / 9th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF513
Credit Hours	3
Lecture /week	2
Practicals / week	3
Total	5

Pre-requisite: all pre clinical subjects

B- Professional Information

1. Overall Aims of Course

- 1) To introduce the student to the basic principles and techniques in managements of oral infection
- 2) To enable the student to have intellectual and clinical skills in management of maxillofacial trauma based on an outpatient population.
- 3) To educate the student in the basic principles of management of maxillary sinus disorders
- 4) To familiarize the student with the procedures most commonly provided by oral and maxillofacial surgeons in treating oral cysts.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

- a1- Identify the armamentarium needed for minor oral surgery procedures
- a2- Describe the techniques of forceps extraction and use of dental elevators for uncomplicated exodontia
- a3- Describe the management of oroantral communications / fistula.
- a4- Recognize the odontogenic infection & complications and management of odontogenic infections
- A5- Identify cysts and tumors involving the oral and maxillofacial region
- A6- Describe the surgical management of facial trauma.

b) Intellectual Skills:

By the end of this course every student able to:

- b1- Communicate and appraise clinical problems and treatment plans with other specialties involved in the treatment of patients
- b2. Interpret clinical data and special investigations to help formulate a proper diagnosis and treatment plan of oral trauma

c) Professional and Practical Skills:

By the end of this course every student able to:

- c1- Administer infiltration and block local anesthesia
- c2- Perform exodontia and basic minor oral surgery procedures including proper suturing technique
- c3- Give postoperative instructions to the patient
- c4- Prescribe the appropriate drugs and monitor their effectiveness and safety particularly in the management of fear and anxiety
- c5- Manage medical emergencies that may arise in the outpatient clinic
- c6- Diagnose an acute and chronic odontogenic infections .

d)General and transferable skills

By the end of this course every student able to:

- D1. Ability to Train and Teach
- D2. Work effectively under pressure
- D3.Cope with time constraints

3. Course Contents:

Ser.	TOPIC
1	Maxillofacial trauma
2	Management of odontogenic infection
3	Management of oral and para-oral cysts
4	Reconstructive Surgery
5	Maxillary sinus

Topics and Tentative Schedule

Weeks	Topics
1 st ,2 nd ,3 rd and 4 th weeks	Traumatic injuries
5 th and 6 th weeks	Maxillary sinus 1 st mid term
7 th ,8 th and 9 th weeks	Management of oral infection
10 th week	Reconstructive surgery 2 nd mid term
11 th ,12 th weeks	Cystic lesions

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Clinical and Small group sessions :
- 4.3- Clinical training (demonstration, skill practice, chair-side supervision)
- 4.4- Tutorial classes (small group teaching, tutorial demonstration, case presentation, radiographic interpretation)
- 4.5-E-learning

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding
- 5-2. Oral examination to assess knowledge and understanding & general intellectual skills
- 5-3. practical examination to assess Practical skills & general skills
- 5-4 Clinical examination

Assessment Schedule

- Assessment 1: 1st midterm exam (written)
- Assessment 2: 2nd midterm exam (written)
- Assessment 3: practical exam
- Assessment 4: Final written
- Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
<u>Class work</u>	<u>20 %</u>
Total	100 %

6. List of References

- 6-1. Course Notes
 - Teaching staff lecture notes handouts
 - LCD projector (data show) and videotape
- 6-2. Essential Books (Text Books)
 - Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6.2015
 - Handbook of Local Anesthesia by Stanley F. Malamed.ed.6.2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall :
 - on the 2nd floor,faculty of oral and dental medicine, Future University
 - White writing boards and LCD projector (Data show) is available
- 2)- Clinical Small group teaching,clinical sessions and outpatient clinic held in the oral surgery clinics, ground floor, faculty of oral and dental medicine, Future University
- 3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial Surgery department, white writing board, x ray viewer, overhead Projector, slide projector, LCD projector (data show) and videotape
- 3)-Library:

On the 2nd floor of the faculty of oral and dental medicine, Future University

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√				
	a2	√		√	√	√
	a3	√	√	√	√	√
	A4	√		√	√	√
	A5	√		√	√	√
	A6	√		√	√	√
b	b1		√			
	B2	√	√		√	
c	c1		√			
	c2		√			
	c3		√			
	c4		√	√	√	√
	c5		√	√	√	√
	c6		√	√	√	√
d	d1		√			√
	D2			√	√	
	D3			√	√	

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination

Assessment Plan:

	ILOs	5-1	5-2	5-3	5-4
a	a1	√		√	√
	a2	√		√	√
	a3	√	√		
	A4	√	√		
	A5	√	√		
	A6	√	√		
b	b1		√		
	B2		√		√
c	c1			√	√
	c2			√	√
	c3			√	√
	c4			√	√
	c5			√	√
	c6			√	√
d	d1			√	
	D2			√	
	D3			√	

Course Coordinator:

- Doctor/ Walid fathy

Head of Department:

- Professor Doctor/ Ahmed Barakat

Course Specifications
Oral and Maxillofacial Surgery
OMF 514

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course Oral and Maxillofacial Surgery (OMF)

Academic Year / Level : 5th year / 10th semester

A- Basic Information

Course Title	Oral and Maxillofacial Surgery
Code	OMF 514
Credit Hours	3
Lecture /week	2
Practicals / week	3
Total	5

Pre-requisite: OMF 513

B- Professional Information

1. Overall Aims of Course

- 1)- To apply specialized knowledge and integrate it with relevant knowledge in oral tumors
- 2) To educate the students the principles of conscious sedation and general Anesthesia
- 3) To master an appropriate range of specialized professional skills, to serve practice in salivary gland disorder management.
- 4) To learn the art of assessing patients with TMJ disorders by taking systematic history, including detailed medical history, thorough physical examination and the proper use of investigations.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

- a1- Classify the salivary gland disease
- a2- Identify disorders of the oral mucosa, including malignant and potentially malignant lesions and discuss the principles of cancer therapy
- a3- Recognize the different temporomandibular joint disorders
- a4- Identify the indications and contra-indications for general anesthesia .
- a.5 Describe the stage and techniques of general anesthesia for both outpatient and inpatient surgery

b)Intellectual Skills:

By the end of this course every student able to:

- b1- Conceder and recommend the appropriate referral of patients for specialist advice or treatment.
- b2- Relate the advantages and disadvantages of relevant treatment plans with patients
- b3- Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan

c)Professional and Practical Skills:

By the end of this course every student able to:

- C1- Inspect and examine TMJ disorder patients

d) General and transferable skills

By the end of this course every student able to:

- D1.Effective communication of different types.
- D2.Use of information technology to serve professional practice.
- D3.Use of different sources for access to information and knowledge.
- D4.Develop rules and indicators for evaluating the performance of others.

3. Course Contents:

Ser.	TOPIC
1	Temporomandibular joint disorders
2	Oral tumors
4	General anesthesia for dentistry
5	Conscious sedation in dental appointment
6	Salivary glands disorders

Topics and Tentative Schedule:

Weeks	Topics
1st , 2nd and 3rd weeks	Management of salivary gland disorders
,4th , 5th , 6th and 7th weeks	Management of oral tumors
8th , 9th and 10th weeks	Management of TMJ disorders 1st mid term
11th,12th and 13th weeks	General anesthesia

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Clinical and Small group sessions :
- 4.3- Clinical training (demonstration, chair-side supervision)
- 4.4- Tutorial classes (small group teaching, tutorial demonstration, case presentation, radiographic interpretation)
- 4.5-E-learning

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge and understanding
- 5-2. Log book (minimum 25 cases) to assess of clinical skills
- 5-3. Oral examination to assess knowledge and understanding & general intellectual skills
- 5-4. Clinical examination to assess Practical skills & general skills

Assessment Schedule

- Assessment 1: 1st midterm exam (written)
- Assessment 2: 2nd midterm exam (written)
- Assessment 3: practical exam
- Assessment 4: Final written
- Assessment 5: oral exam

Weighting of Assessments

Mid-term Examinations	30 %
Mid-term Practical Examination	20 %
Final written Examination	25 %
Oral Examination	10 %
Practical Examination	15 %
Total	100 %
Any formative only assessments	

6. List of References

- 6-1. Course Notes
 - Teaching staff lecture notes handouts
 - LCD projector (data show) and videotape
- 6-2. Essential Books (Text Books)
 - Contemporary Oral and Maxillofacial Surgery by Larry J. Peterson.ed.6.2015
 - Handbook of Local Anesthesia by Stanley F. Malamed .ed.6.2014
(Available in the library at the faculty of oral and dental medicine, Future University)

7. Facilities Required for Teaching and Learning

- 1)- Lecture Hall :
 - on the 2nd floor, faculty of oral and dental medicine, Future University
 - White writing boards and LCD projector (Data show) is available
- 2)- Clinical Small group teaching, clinical sessions and outpatient clinic held in the oral surgery clinics, ground floor, faculty of oral and dental medicine, Future University
- 3) - Tutorial Classes: Small lecture room on the 4th floor, oral & maxillofacial Surgery department, white writing borad, x ray viewer, overhead Projector, slide projector, LCD projector (data show) and videotape
- 3)-Library:
On the 2nd floor of the faculty of oral and dental medicine, Future University

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Clinical training
4-4	Tutorial classes
4-5	E-Learning

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√				
	a2	√				
	a3	√	√	√		
	a4	√				
	A5	√	√	√		
b	b1		√			
	b2		√			
	b3		√			
c	C1		√	√		
d	d1	√	√			
	D2					√
	D3		√		√	√
	D4		√		√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4
a	a1	√	√	√	
	a2	√	√	√	
	a3	√	√	√	√
	a4	√	√	√	√
	a5	√	√	√	
b	b1		√		
	b2		√		
	b3		√		
c	c1			√	√
d	D1	√			
	D2				√
	D3		√		
	D4	√	√		

Course Coordinator:

- Prof. Waleed El-Beily

Head of Department:

- Professor Doctor/ Ahmed Barakat

**Future University
Faculty of Oral and Dental Medicine**

**Course Specifications
Oral Medicine and Periodontology
MPDR 513**

Course Specifications

Program on which the course is given: Bachelor of Dental Medicine and Surgery

Department offering the course: Oral Medicine, Periodontology, Diagnosis, Oral Radiology

Academic Year /Level: 5th year / 9th semester

A- Basic Information

Course Title	Oral Medicine
Code	MPDR 513
Credit Hours	3
Lecture /week	2
Practicals / week	3

Pre-requisite: MPDR 412

B- Professional Information

1. Overall Aims of Course:

The overall aims of the course are to:

- To foster knowledge that governs the principle of white, red mucosal lesions that affects the oral cavity and adjacent structures.
- To provide opportunities for review and analysis of a wide range of oral ulceration and pigmented lesions.
- To expand students analytical skills relative to clinical signs and symptoms, treatment and prognosis of different oral lesions

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding:

By the end of the program the student should be able to:

- a1- Define different types of white and red oral mucosal lesions and recognize the precancerous types.
- a2- Describe etiology, histopathology and clinical picture of oral mucosal white lesions and red lesions.
- a3- Identify dental management, implications and prognosis of oral mucosal white lesions and red lesions.
- a4- Enumerate and define different types of oral ulcers.
- a5- Describe etiology, histopathology and clinical picture of viral ulcers and immunological ulcers
- a6- Recognize dental management, implications and prognosis of oral ulcers affecting oral tissues.
- a7- List laboratory and special investigations to diagnose the different types of oral ulcers.
- a8- Identify the etiology, clinical features and dental implications of different pigmented lesions.

b)Intellectual Skills:

By the end of the program the student should be able to:

- b1- Classify different types of oral white and red lesions.
- b2- Select laboratory and special investigations to diagnose the different types of white and red lesions of oral mucosa.
- b3- Select treatment plan for different oral white and red lesions.
- b4- Classify oral ulcerations.
- b5- Compare between different types of oral ulcerations.
- b6-Choose laboratory and special investigations to diagnose the different types of oral ulcers.
- b7-Describe treatment plan and prognosis for different viral and immunological ulcers.
- b8- Classify pigmented lesions.

c)Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Analyze data collected from the different signs and symptoms revealed during the patient examination.
- c2- Differentiate clinically between different types of oral lesions.
- c3- Relate information obtained from the patient examination to its oral and systemic condition
- c4- Distinguish between the range of normal clinical findings and abnormal deviations present.
- c5- Memorize infection diseases endangering the dentist and methods of infection control
- c6- Recognize general aspects of dental practice including esthetics, medico-legal considerations, management and maintenance of a safe working environment.

d) General and Transferable Skills:

By the end of the program the student should be able to:

- d1- Exercise effective communication methods with other health care professionals and auxiliary personals to maximize patient benefits and minimize the risk of errors.
- d2- Point out to the patient the nature of his/her condition, different treatment options and possible complications in such a way that is easily understood, answers patient questions and encourages discussion.

3. Course Contents:

Ser.	TOPIC
1	White and red lesions of the oral mucosa
2	Viral oral ulcers
3	Immunologic oral ulcers
4	Melanotic and non melanotic pigmented lesions

Topics and Tentative Schedule:

Week	Lecture	Clinic Schedule
1 st week	<u>White lesions</u> Oral keratosis,	Revision of diagnostic chart
2 nd week	Leukoplakia	CASES
3 rd week	Oral candidosis	CASES
4 th week	Lichen Planus	Melanotic oral pigmented lesions
5 th week	1st midterm	Non melanotic oral pigmented lesions
6 th week	Lupus erythematosus	Quiz + CASES
7 th week	<u>Oral Ulcers : Viral ulcers</u> Single ulcers: Traumatic, SCC, TB, Syphilis	Clinical picture of white lesions
8 th week	Herpes simplex, Varicella zoster	Clinical picture of white lesions
9 th week	2nd midterm	CASES
10 th week	Coxsackie, Aphthous ulcer	CASES
11 th week	<u>Oral Ulcers : Immunologic ulcers</u> Erythema multiforme, Steven Johnson	Clinical picture of oral ulcers
12 th week	Pemphigus vulgaris, Mucous membrane pemphigoid, Bullous pemphigoid	Clinical picture of white lesions
13 th week	Behcet Syndrome, Reiter`s syndrome	Final Spotting Exam

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Midterm practical examination	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %

Total 100%

Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Essential Books (Text books)
 - Burket's Oral Medicine, *Michael Glick, 12th Edition, 2015.*
- 6-3. Recommended books
 - Cawson Essentials of Oral Pathology and Oral Medicine . Cawson and Odell, 7th Edition, 2002.
 - Color Atlas of Oral Pathology, Cawson and Odell, 2nd Edition, 1999.
- 6-7. Periodicals, Web Sites.....etc

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector
- 60 large pictures of different oro-dental diseases

- Data show is available

Teaching and Learning Methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	-	-	-	-	-	-
	a2	*	*	-	-	-	-	-	-
	a3	*	*	-	-	-	-	-	-
	a4	*	*	-	-	-	-	-	-
	a5	*	*	-	-	-	-	-	-
	a6	*	*	-	-	-	-	-	-
	a7	*	*	-	-	-	-	-	-
	a8	*	*	-	-	-	-	-	-
b	b1	*	*	-	-	-	-	-	-
	b2	*	*	-	-	-	-	-	-
	b3	*	*	-	*	*	-	-	-
	b4	*	*	-	-	-	-	-	-
	b5	*	*	-	-	-	*	-	-
	b6	*	*	-	-	-	-	-	-
	b7	*	*	-	-	-	-	-	-
	b8	*	*	-	-	-	-	-	-
c	c1	-	-	-	*	*	-	-	-
	c2	-	-	*	*	*	-	-	-
	c3	-	-	*	*	*	-	-	-
	c4	-	-	-	*	*	-	-	-
	c5	-	-	-	*	*	-	-	-
	c6	-	-	-	*	*	-	-	-
d	d1	-	-	*	*	*	-	-	-
	d2	-	-	*	*	*	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	*
	a2	*	*	-	-	*	*	*	*
	a3	*	*	-	-	*	*	*	*
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	*
	a8	*	*	-	-	*	*	*	*
b	b1	*	*	-	-	*	*	*	*
	b2	*	*	-	-	*	*	*	*
	b3	*	*	-	-	*	*	*	*
	b4	*	*	-	-	*	*	*	*
	b5	*	*	-	-	*	*	*	*
	b6	*	*	-	-	*	*	*	*
	b7	*	*	-	-	*	*	*	*
	b8	*	*	-	-	*	*	*	*
c	c1	-	*	-	*	*	-	-	-
	c2	-	*	-	*	-	-	*	-
	c3	-	*	-	*	-	-	-	-
	c4	-	*	-	*	-	-	-	-
	c5	-	*	-	*	-	-	-	-
	c6	-	*	-	*	-	-	-	-
d	d1	-	-	-	*	-	-	-	-
	d2	-	-	-	*	-	-	-	-

Course Coordinator: Ass. Prof. dr. Ahmed Barbary

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

Future University
Faculty of Oral and Dental Medicine

Course Specifications
Oral Medicine and Periodontology
MPDR 514

Course Specifications

Program on which the course is given: Bachelor of Dental Medicine and Surgery
Department offering the course: Oral Medicine, Periodontology, Diagnosis and

Oral Radiology

Academic Year /Level: 5th year / 10th semester

A- Basic Information

Course Title	Oral Medicine
Code	MPDR 514
Credit Hours	3
Lecture /week	2
Practicals / week	3

Pre-requisite: MPDR 513

B- Professional Information

1. Overall Aims of Course

The overall aims of the course are to:

- a) To foster knowledge that governs the principles of blood disorders with oral manifestations.
- b) To provide opportunities for review and analysis of a wide range of cardiovascular and endocrine disorders.
- c) To perform dental management of medically compromised patients.
- d) To be aware of rules of referral and consultations.
- e) To have an overview over different types of tongue lesions.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding:

By the end of the program the student should be able to:

- a1- Understand the different types and oral manifestations of red and white blood cell disorders.
- a2- Identify different types of bleeding disorders with oral manifestations.
- a3- Recall the laboratory investigations needed for proper diagnosis of various blood disorders.
- a4- Review dental implications and management of blood disorders.
- a5- Discuss the etiology, mechanism and clinical features of cardiovascular diseases.
- a6- Describe dental management and implications of patients with cardiovascular diseases.
- a7- Review extra- and intraoral manifestations and dental management of endocrine disorders.
- a8- Identify different tongue lesions.

b)Intellectual Skills:

By the end of the program the student should be able to:

- b1- Classify different types of red and white blood cell disorders.
- b2- Differentiate between different types of blood disorders based on clinical manifestations and laboratory investigations.
- b3- Explain the dental implications and management of different blood disorders.
- b4- Compare between different types of anticoagulants.
- b5- Propose the treatment plan for management of patients with different cardiovascular diseases.
- b6- Compare the systemic and oral manifestations of different endocrine disorders.
- b7- Integrate the obtained clinical and investigational data base with the evidence-based knowledge and skill of deductive reasoning to be proficient in clinical problem solving.
- b8- Classify different lesions affecting the tongue.

c)Professional and Practical Skills:

By the end of the program the student should be able to:

- c1- Propose an individualized treatment plan for patients with different systemic disorders.
- c2- Assess treatment options to be done by the general dentist and those that need referral and consultation.
- c3- Recognize patients at risk and be prepared for their dental implications and management
- c4- Apply the brief concise case history in an informed consent.

d)General and Transferable Skills:

By the end of the program the student should be able to:

- d1- Converse with patients in an attentive manner that conveys concern, compassion and encouragement to patients or their families.
- d2- Choose the effective communication means with other health care professionals.
- d3- Perform the possible infection control and tutor students that “Safety comes first”.
- d4- Develop and enhance rational thinking and prudent judgment.
- d5- Recognize the basic concepts of quality assurance and practice management.

3. Course Contents:

Ser.	TOPIC
1	Red blood cell disorders
2	White blood cell disorders
3	Platelet and coagulation disorders
4	Management of cardiovascular diseases
5	Management of endocrine disorders
6	Tongue lesions

Topics and Tentative Schedule

Week	Lecture	Clinic Schedule
1 st week	<u>RBC disorders</u> Iron deficiency anemia, Plummer Vinson syndrome	Revision of diagnostic chart
2 nd week	Pernicious anemia, Folic acid deficiency anemia, Aplastic anemia	CASES
3 rd week	Sickle cell anemia, Thalassemia, Polycythemia	Tongue lesions
4 th week	<u>WBC disorders</u> Agranulocytosis, Cyclic Neutropenia, Leukemia	Tongue lesions
5 th week	1st midterm	CASES
6 th week	<u>Platelet and coagulation disorders</u> Thrombocytopenia, Thrombocytosis	Quiz + CASES
7 th week	Hemophilia A, B, von Willebrand disease	CASES
8 th week	Liver disease, Vit. K deficiency Anticoagulants,	Clinical picture of blood disorders
9 th week	2nd midterm	Clinical picture of blood disorders
10 th week	<u>Management of systemic diseases</u> A. Cardiovascular diseases Myocardial infarction, Angina pectoris	CASES
11 th week	Hypertension , Infective endocarditis	Clinical picture of endocrine disorders
12 th week	A. Endocrine disorders Adrenal gland, Diabetes	Clinical picture of endocrine disorders
13 th week 28/11	Pituitary gland, Thyroid gland, Parathyroid gland, Pregnancy	Final Spotting Exam

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2. Small group discussion.
- 4.3. Demonstration.
- 4.4. Practical (Laboratory) Training and Requirements.
- 4.5. Clinical Requirements.
- 4.6. E-Learning.
- 4.7. PBL.

5. Student Assessment Methods

- 5-1. Written exam to assess knowledge, understanding and general intellectual skills.
- 5-2. M.C.Q to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-3. Practice exam to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-4. Oral examination to assess knowledge, understanding, professional skills and general intellectual skills.
- 5-5. Attendance to assess punctuality and regularity.

Assessment Schedule

- Assessment 1: first term (written)
- Assessment 2: second term (written)
- Assessment 3: practical exam
- Assessment 4: final written & oral exam

Weighting of Assessments

Mid-term examination	30 %
Midterm practical examination	20 %
Final term examination	25 %
Oral examination	10 %
Practical examination	15 %
Total	100%
Any formative only assessments	

6. List of References

- 6-1. Course notes
- 6-2. Essential Books (Text books)
 - Burket's Oral Medicine, *Michael Glick, 12th Edition, 2015.*
- 6-3. Recommended books
 - Dental Management of Medically Compromised Patients, *Jeff Burgess, 8th Edition, 2015.*
 - Scully's Medical Problems in Dentistry, *Crispian Scully, 7th Edition, 2014.*
- 6-7. Periodicals, Web Sites.....et

7. Facilities Required for Teaching and Learning

1)- Lecture Hall :

- In the main building of the faculty of oral and dental medicine
- White boards are available
- Overhead projector
- Slide projector
- Data show is available

2)- Small group sessions :

- One large teaching room
- Fourteen dental units
- White board
- Slide projector

- 60 large pictures of different oro-dental diseases
- Data show is available

Teaching and Learning Methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	*	*	-	-	-	-	-	-
	a2	*	*	-	-	-	-	-	-
	a3	*	*	-	-	-	-	-	-
	a4	*	*	-	-	-	-	-	-
	a5	*	*	-	-	-	-	-	-
	a6	*	*	-	-	-	-	-	-
	a7	*	*	-	-	-	-	-	-
	a8	*	*	-	-	-	-	-	-
b	b1	*	*	-	-	-	-	*	-
	b2	*	*	-	-	-	-	*	-
	b3	*	*	-	-	-	-	*	-
	b4	*	*	-	-	-	-	*	-
	b5	*	*	-	-	-	-	*	-
	b6	*	*	-	-	-	-	*	-
	b7	*	*	-	-	-	-	*	-
	b8	*	*	-	-	-	-	*	-
c	c1	-	-	*	*	*	-	*	-
	c2	-	-	*	*	*	-	*	-
	c3	-	-	*	*	*	-	-	-
	c4	-	-	*	*	*	-	-	-
d	d1	-	-	*	*	*	-	-	-
	d2	-	-	*	*	*	-	-	-
	d3	-	-	*	*	*	-	-	-
	d4	-	-	*	*	*	-	-	-
	d5	-	-	*	*	*	-	-	-

Assessment Methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	*	*	-	-	*	*	*	*
	a2	*	*	-	-	*	*	*	*
	a3	*	*	-	-	*	*	*	*
	a4	*	*	-	-	*	*	*	*
	a5	*	*	-	-	*	*	*	*
	a6	*	*	-	-	*	*	*	*
	a7	*	*	-	-	*	*	*	*
b	b1	*	*	-	-	*	*	*	-
	b2	*	*	-	-	*	*	*	-
	b3	*	*	-	-	*	*	*	-
	b4	*	*	-	-	*	*	*	-
	b5	*	*	-	-	*	*	*	-
	b6	*	*	-	-	*	*	*	-
	b7	*	*	-	-	*	*	*	-
c	c1	-	*	-	*	*	-	*	-
	c2	-	*	-	*	*	-	-	-
	c3	-	*	-	*	-	-	-	-
	c4	-	*	-	*	-	-	-	-
d	d1	-	-	-	*	-	-	-	-
	d2	-	-	-	*	-	-	-	-
	d3	-	-	-	*	-	-	-	-
	d4	-	-	-	*	-	-	-	-
	d5	-	-	-	*	-	-	-	-

Course Coordinator: Ass. Prof. dr. Ahmed Barbary

Head of Department: Prof. dr. Shahira El Ashiry

Date: / /

Future University

Faculty of Oral and Dental Medicine

Course Specifications

Pedodontics 1

ORP 511

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Orthodontics and Pedodontics Department

Academic Year / Level: 5th year / 9th semester

A- Basic Information

Course Title	Pedodontic and public health
Code	ORP 511
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-requisite: all pre clinical subjects

B- Professional Information

1. Overall Aims of Course

- To introduce pediatric dentistry to students, highlighting importance of primary dentition.
- To help students to understand normal occlusion and development of dentition.
- To differentiate between morphology in primary and permanent dentition.
- To enable the students to diagnose and to treat dental caries among children and adolescents.
- To understand psychological management and apply behavior modification.
- To understand techniques of pain control through conscious sedation and local anesthesia.

5. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of the course, the student should be able to:

a1- Recognize the aim and benefits of pedodontics for children, dentist and nation.

a2- State the importance of primary teeth.

a3- Summarize the factors that influence the child behavior in dental office and the different psychological management approaches.

a4- Recognize the morphological differences between the primary and permanent dentition and their significance in clinical practice.

a5- Describe the normal occlusion of pediatric patients at different ages of life.

a6- Describe and memorize different techniques used in restoration of primary teeth and young permanent teeth.

a7- List advantages and disadvantages of various materials employed in restoration of primary teeth and young permanent teeth.

b)Intellectual Skills:

By the end of the course, the student should be able to:

b1- Differentiate between primary and permanent teeth.

b2- Recognize the need for and types of premedications and their methods of application in clinical practice.

b3- Recognize the different methods and techniques of pain control.

c)Professional and Practical Skills:

By the end of the course, the student should be able to:

c1- Manage children, whose behavior ranges from compliant to disruptive, through the use of psychological techniques so that preventive and therapeutic dental procedures can be completed.

c2- Perform a clinical examination of the child that encompasses head and neck, facial, intra-oral and extra-oral examination

c3- Diagnose dental caries in primary and young permanent teeth in children.

c4- Create an accurate data base of child and parent information from which to formulate an accurate diagnosis.

d)General and transferable skills

By the end of the course, the student should be able to:

d1-Demonstrate appropriate professional attitudes and behavior in different situations toward patients, colleagues and supervisors.

d2- Communicate effectively with the child and child's parent(s) or caretaker.

d3- Plan and present treatment recommendations to parents.

d4- Consider health and safety regulations as they greatly affect dental practice and environment.

3. Course Contents:

Weeks	Topics
1st week	Introduction to pediatric dentistry
2nd week	Eruption & Chronology of primary and permanent teeth
3rd week	Normal occlusion in children
4th week	Morphology of primary & permanent
5th week	First dental visit
6th	1st midterm exam
7th	Behavior management in children and young adults
8th	Local anesthesia in child patients

9th	Restoration of primary teeth
10th	Restoration of primary teeth
11th	2 nd midterm exam
12th	Pharmacological management for resistant child
13th	Conscious sedation

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Lecture with discussion
- 4-3. Problem solving case
- 4-4. Demonstrations
- 5-5. Clinical sessions

5. Student Assessment Methods

- 5-1. Written examination
- 5-2. Oral examination
- 5-3. Clinical examination
- 5-4. Log book

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examination	30	%
Class work	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%

Total 100 %

Any formative only assessments

6. List of References

- 6-1. Course notes

- Slides and computer presentation used teaching

6-2. Essential books (Text Books)

- McDonald , R. E.; Avery,D .R.and Dean J.A: Dentistry For The Child And Adolescent, 8 th ed. C.V Mosby, 2004.
- Pediatric Dentistry Infancy Through Adolescence By: Pinkham,J.R.,4th Edition,2005

7. Facilities Required for Teaching and Learning

- Large lecture halls
- Small Group classes
- Clinical sessions

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Lecture with discussion
4-3	Problem solving case
4-4	Demonstrations
4-5	Clinical sessions

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√				
	a2	√				
	a3		√			
	a4		√	√		
	a5	√	√			
	a6	√	√			
	a7	√			√	
b	b1	√	√	√	√	
	b2			√		
	b3			√		
c	c1				√	√
	c2			√		√
	c3				√	√
	c4		√			√
d	d1				√	√
	d2			√		√
	d3		√		√	√
	d4		√		√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Projects

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√	√			
	a2	√	√			
	a3	√				
	a4		√			
	a5	√	√			
	a6	√	√			
	a7	√			√	
b	b1	√				√
	b2	√				√
	b3	√		√	√	√
c	c1			√	√	
	c2			√	√	
	c3			√	√	
	c4			√	√	
d	d1			√		
	d2		√	√		
	d3			√	√	
	d4		√	√	√	

Course Coordinator: Dr. Samah Awad

Head of Department: Dr. Osama El Shahwy

Date: / /

Course Specifications
Pedodontics 2

ORP 512

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Orthodontics and Pedodontics Department

Academic Year / Level: 5th year / 10th semester

A- Basic Information

Course Title	Pedodontic and public health
Code	ORP 512
Credit Hours	2
Lecture /week	1
Practicals / week	2
Total	3

Pre-requisite: ORP511

B- Professional Information

1. Overall Aims of Course

- Provide student with knowledge & skills necessary for improvement, maintenance & treatment of oral health of infants, children, adolescents & children with special needs.
- To enable the students to diagnose and treat deep caries among children and adolescents.
- To provide students with knowledge about diagnosis, classification and treatment of traumatic injuries in primary and young permanent teeth.
- To provide students with knowledge about the therapeutic oral health care to infants, children, and adolescents including patients with Special Health Care Needs.
- To understand the need for space management in children.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and understanding :

By the end of the course, each student will be able to:

a1-Define early childhood caries and identify its different stages.

a2-Describe different techniques used in pulp therapy of primary and young permanent teeth.

a3-Enumerate indications of stainless steel crowns and describe its technique of placement.

a4-Recognize & classify different types of traumatic injuries.

a5-Describe different methods of space analysis and state the possible management for different cases of space problems in both primary and mixed dentitions.

b) Intellectual Skills:

- b1- Illustrate decisions regarding management of deep caries in both primary and permanent dentitions.
- b2- Relate personal, medical and dental history together with clinical and radiographic finding to manage both immediate and delayed effects of traumatic injuries.
- b3- Consider to health and safety regulations as they greatly affect dental practice and environment
- b4-Distinguish between common gingival and periodontal diseases affecting children and young adults.
- b5- Differentiate between different types of space maintainers & distinguish between their uses.
- b6- Select the appropriate management for each class of traumatic injuries.

c) Professional and Practical Skills:

- c1-Manage pulpally affected primary and young permanent teeth.
- c2- Perform a clinical examination of the child that encompasses head and neck, facial, intra-oral and extra-oral examination.
- c3-Diagnose common periodontal problems in children.

d) General and transferable skills

- d1-Communicate effectively with the child and child's parent(s) or caretaker.
- d2-Write a referral letter when needed.
- d3-Show respectful attitude towards children and their families, his colleagues, and all faculty staff and employers.

3. Course Contents:

Weeks	Topics
1st week	Early childhood caries
2nd week	Management of deep caries in children and young adults
3rd week	Stainless steel crowns
4th week	Trauma (Diagnosis & classification)
5th week	Trauma (treatment)
6th	1st midterm exam
7th	Reaction of teeth to trauma
8th	Space maintainers
9th	Introduction to handicapped
10th	Management of handicapped
11th	2nd midterm exam
12th	Gingival and Periodontal diseases

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. Lecture with discussion
- 4-3. Problem solving case
- 4-4. Demonstrations
- 5-5. Clinical sessions

5. Student Assessment Methods

- 5-1. Written examination
- 5-2. Oral examination
- 5-3. Clinical examination
- 5-4. Log book

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: 2nd Mid Term Exam
- Assessment 3: Mid Term practical exam
- Assessment 4: Final written & oral and Practical exam

Weighting of Assessments

Mid Term Examinations	30	%
Class work	20	%
Oral Examination	10	%
Practical Examination	15	%
Final Written Examination	25	%
Total	100	%
Any formative only assessments		

6. List of References

- 6-1. Course notes
 - Slides and computer presentation used teaching
- 6-2. Essential books (Text Books)
 - McDonald , R. E.; Avery,D .R.and Dean J.A: Dentistry For The Child And Adolescent, 8 th ed. C.V Mosby, 2004.
 - Pediatric Dentistry Infancy Through Adolescence By: Pinkham,J.R.,4th Edition,2005

7. Facilities Required for Teaching and Learning

- Large lecture halls

- Small Group classes
- Clinical sessions

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Lecture with discussion
4-3	Problem solving case
4-4	Demonstrations
4-5	Clinical sessions

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5
a	a1	√	√			
	a2	√	√			
	a3	√				
	a4		√			
	a5	√	√			
b	b1	√	√	√		
	b2		√			
	b3		√			
	b4	√				
	b5	√				
	b6	√				
c	c1			√	√	√
	c2				√	√
	c3		√			√
d	d1					
	d2	√				
	d3		√			

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Clinical Examination
5-4	Quizzes (continuous assessment)
5-5	Projects

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5
a	a1	√	√	√		
	a2	√	√	√	√	
	a3	√			√	
	a4			√		√
	a5	√	√	√		
b	b1	√	√	√		
	b2					√
	b3					
	b4		√			√
	b5		√			√
	b6		√			√
c	c1			√		
	c2				√	
	c3			√		
d	d1					
	d2	√				
	d3					

Course Coordinator: Dr. Samah Awad

Head of Department: Dr. Osama El Shahwy

Date: / /

Course Specifications for
Implantology

OMF541

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Oral and Maxillofacial Surgery
Academic Year / Level: 5th year / 10th semester

A- Basic Information

Course Title	Implantology
Code	OMF541
Credit Hours	1
Lecture /week	1
Practicals / week	0
Total	1

Pre-requisite: all pre clinical subjects

B- Professional Information

1. Overall Aims of Course

- To educate the students about the basics of surgical, biological, prosthetic and periodontal considerations that should be followed during implantation.
- To familiarize the student with different recent treatment modalities of varying difficulties.
- To enable students to detect the causes of implant failure and their management.
- To educate students about the care and maintenance aspect of the implant.

2. Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of this course every student able to:

- a1 Understand the history of dental implants, current status and future development of implant dentistry.
- a2- Recognize the maxillary and mandibular anatomical considerations and limitations in relation to implant placement.
- A3. Recognize indications for referral to dental specialists
- A4. Apply principles for peri-implant hard and soft tissue surgery

b) Intellectual Skills:

By the end of this course every student able to:

- b1- - Relate the basics of diagnosis with the treatment planning of the badly broken and/or missing teeth for implantation.
- b2- Apply the protective measures during the steps of implant preparation in order to fulfill biological and periodontal considerations
- b3- Assess properly the implant success and failure.

c)Professional and Practical Skills:

By the end of this course every student able to:

C1- Interpret diagnostic imaging including cone beam CT for the assessment of implant site

d)General and transferable skills

By the end of this course every student able to:

D1- Demonstrate respect to all patients irrespective to their socioeconomic levels, cultures or religious beliefs

D2- Evaluate personal progress and assess ones weakness and strengths.

D3- Have an awareness of moral and ethical responsibilities involved in the provision of care to individual patients and community.

D4- Meet patient’s needs and expectations

D5- Share actively in health promotion and disease prevention program that benefit the community.

3. Course Contents:

Ser.	TOPIC
1	Diagnosis & Treatment Planning
2	Surgical Introduction
3	Periodontal Introduction
4	Prosthetic Planning
5	Radiographic Assessment

Weeks	Topics
1st week	Theory of Osseointegration
2nd week	Armamentarium and Types of implants
3rd week	Surgical Techniques
4th week	Diagnosis of Peri-implant mucositis & Peri-implant implantitis
5th week	Treatment of Peri-implant mucositis & Peri-implant implantitis
6th week	Principles of implant location; prosthetic & anatomical considerations
7th week	Midterm
8th week	Prosthetic template; construction & uses
9th week	Types of impression techniques in prosthetic implant dentistry
10th week	Types of implant supported prosthesis
11th week	Planning and follow up

12th week	Radiographic assessment and 3D evaluation
13th week	Revision

4. Teaching and Learning Methods

- 4-1. Lectures
- 4-2. E- learning

5. Student Assessment Methods

- 5-1. Written examination to assess knowledge and understanding.
- 5-2. assignments seminars

Assessment Schedule

- Assessment 1: 1st Mid Term Exam
- Assessment 2: Assignments
- Assessment 3: Final written exam

Weighting of Assessments

1 st Mid Term Examination	40	%
Final Written Examination	50	%
<u>Others (assignment)</u>	<u>10</u>	<u>%</u>
Total	100	%

Any formative only assessments

6. List of References

- 6-1. Course notes
- 6-2. Recommended Books
- 6-3. Periodicals, Web Sites,etc

7. Facilities Required for Teaching and Learning

- 1. Facilities used for teaching this course include:
 - Lecture hall
- 2. Library
- 3. Clinical Facilities

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	E-Learning

Teaching Plan:

ILOs		4-1	4-2
a	a1	√	√
	a2	√	√
	A3	√	√
	A4	√	√
b	b1	√	√
	b2	√	√
	b3	√	√
c	c1		√
d	d1	√	√
	d2		√
	d3		√
	D4		√
	D5		√

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Assignments, Presentations/Seminars

Assessment Plan:

ILOs		5-1	5-2
a	a1	√	√
	a2	√	√
	A3	√	√
	A4	√	√
b	b1	√	√
	b2	√	√
	b3	√	√
c	c1		√
d	d1		√
	d2		√
	d3		√
	D4		√
	D5		√

Course Coordinator: Ass.Prof. Nelly Hammouda

Head of Department: Prof Ahmed Barakat

Future University
Faculty of Oral and Dental Medicine

Course specifications
Laser applications for medicine and periodontology
MPDR 551

Course Specifications

Program on which the course is given: Bachelor of Oral and Dental medicine and Surgery

Department offering the course: Oral Medicine, Periodontology, diagnosis, and Radiology

Academic Year /Level: 5th year / 9th semester

A- Basic Information

Course Title	Laser applications for medicine and periodontology
Code	MPDR 551
Credit Hours	2
Lecture /week	1
Practical / week	2
Contact hours	3

Pre-requisite: PROS 242

B- Professional Information

1. Overall Aims of Course

1. To demonstrate general understanding of laser use in dentistry
2. To improve the health and wellbeing of patients through the proper use of laser technology.
3. To overview the research and clinical aspects of the safe and effective uses of lasers in dentistry.
4. To understand methodological approach and principles of radiographic interpretation and description of lesions
5. To Recognize and describe different lesions and radiographic methods of their evaluation

2. Intended Learning Outcomes of Course (ILOs)

A-Knowledge and Understanding

By the end of this course the student will be able to:

1. List the scientific and clinical principles of lasers in dentistry.
2. Recognize basic concepts of laser physics and segmentation of wavelengths.
3. Recognize the basic elements of laser - tissue interaction.
4. Identify different types of laser used in dentistry

5. Recall knowledge of laser set up, delivery system and power settings.
6. Recall knowledge of laser applications used in dental soft tissue management.
7. Recall knowledge of laser applications used in dental hard tissue management.
8. Identify laser safety and infection control in the dental practice.
9. Discuss the methodological approach and principles of radiographic interpretation and description of lesions.
10. Recognize and describe different lesions and radiographic methods of their evaluation.

B-Intellectual Skills:

By the end of this course the student will be able to:

- 1- Make decisions regarding proper laser type, mode, and frequency.
- 4- Discover the wide advantages of using laser in the dental office.
- 5- Analyze radiographic information to enhance diagnostic skills

C-Professional and Practical Skills

By the end of this course the student will be able to:

- 1- Gain experience with the use of lasers through hands-on clinical simulation.
- 2- Summarize applications used in dental soft and hard tissue management.
- 3- Recognize how to successfully integrate laser use in treatment diagnosis.
- 4- Formulate a differential diagnosis list for a lesion

D-General and transferrable skills:

By the end of this course the student will be able to:

- 1- Show initiative and leadership abilities
- 2- appreciate self-development and continuing education

3. Course Contents:

Week	Lecture	Practical
1-	<ul style="list-style-type: none"> • Introduction to the course • The Nature of Light 	<ul style="list-style-type: none"> • Introduction to DD and description of the lesion
2-	<ul style="list-style-type: none"> • The Wonderful World of Dental Lasers. • Laser generation 	<ul style="list-style-type: none"> • Periapical RL • Pericoronal RL
3-	<ul style="list-style-type: none"> •Laser-tissue interaction •Laser in dentistry(advantages and limitations) 	<ul style="list-style-type: none"> • Solitary well defined RL • Solitary ill defined RL

4-	<ul style="list-style-type: none"> The family tree of lasers in dentistry 	<ul style="list-style-type: none"> Inter-radicular RL Multilocular RL
5-	<ul style="list-style-type: none"> 1st Midterm DD exam(15 marks) 	<ul style="list-style-type: none"> Multiple separate RL Generalized RL
6-	<ul style="list-style-type: none"> The family tree of lasers in dentistry(cont) 	<ul style="list-style-type: none"> DD Excercises on RL lesions Practical DD test (10 marks)
7-	<ul style="list-style-type: none"> Clinical cases, soft tissue 	<ul style="list-style-type: none"> Mixed lesions related to teeth (periapical and pericoronal)
8-	<ul style="list-style-type: none"> Clinical cases, soft tissue(cont.) 	<ul style="list-style-type: none"> Mixed lesions not related to teeth
9-	<ul style="list-style-type: none"> Clinical cases, hard tissue 	<ul style="list-style-type: none"> RO lesions
10-	<ul style="list-style-type: none"> 2nd Midterm DD exam(15 marks) 	<ul style="list-style-type: none"> DD Excercises on mixed and RO lesions Practical DD test (10 marks)
11-	<ul style="list-style-type: none"> Clinical cases, hard tissue(cont) 	<ul style="list-style-type: none"> Clinical Demonstration
12-	<ul style="list-style-type: none"> Laser safety and regulation 	<ul style="list-style-type: none"> Clinical Demonstration
13-	<ul style="list-style-type: none"> Laser safety and regulation 	<ul style="list-style-type: none"> Clinical Demonstration
14-	<ul style="list-style-type: none"> Final exams 	<ul style="list-style-type: none"> Final exams

5. Teaching and Learning Methods

- 4-7 Lectures by presentations
- 4-8 Open – discussion lectures
- 4-9 Clinical training:
 - Demonstrations and videos
 - Case studies
 - Work sheets and surveys
 - Report back sessions

8. Student Assessment Methods

- 5-1. continuous formative quizzes to assess knowledge and understanding
- 5-2. Group work to assess practical skills, team work, and self-presentation
- 5-3. Assignment to assess understanding skills
- 5-4 Final Written examination to assess knowledge and understanding.
- 5-5. Final Oral examination to assess knowledge and understanding, and personal conduct.
- 5-6. structured feedback to assess practical skills

Assessment Schedule

- Assessment 1: first midterm (written/week 5)
- Assessment 2: group presentation (pps /week 12)
- Assessment 3: second midterm (spotting/ week 10)

- Assessment 4: Final written (week 15)

Weighting of Assessments

Class work	20 %
Midterms	30%
<u>Final Examination</u>	<u>50 %</u>
Total	100%

9. List of References

- Atlas of Laser Applications in Dentistry Coluzzi DJ, Convissar RA. 2007
- Dental Applications of Advanced Lasers, 2004, Edition, by Jeffrey G. Manni

10. Facilities Required for Teaching and Learning

- 15- data show projector
- 16- laser delivery system
- 17- lecture hall
- 18- small group clinic

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion
4-3	Demonstration
4-4	Practical (Laboratory) Training and Requirements
4-5	Clinical Requirements
4-6	E-Learning
4-7	PBL
4-8	Other (Please Specify)

Teaching Plan:

ILOs		4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
a	a1	✓	✓				✓		
	a2	✓	✓				✓		
	a3	✓	✓				✓		
	a4	✓	✓				✓		
	a5	✓	✓				✓		
	a6	✓	✓				✓		
	a7	✓	✓				✓		
	a8	✓	✓				✓		
	a9	✓	✓		✓			✓	
	a10	✓	✓		✓			✓	
b	b1		✓						
	b2		✓						
	b3		✓						
c	c1		✓						
	c2		✓						
	c3		✓						
	c4		✓						
d	d1				✓				
	d2				✓				

Assessment methods:

Code	Assessment Method
5-1	Written examination
5-2	Oral examination
5-3	Practical examination
5-4	Clinical Examination
5-5	Quizzes (continuous assessment)
5-6	Assignments
5-7	Presentations/Seminars
5-8	Posters
5-9	Other (Please Specify)

Assessment Plan:

ILOs		5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
a	a1	✓				✓			✓
	a2	✓				✓			✓
	a3	✓				✓			✓
	a4	✓				✓			✓
	a5	✓				✓			✓
	a6	✓				✓			
	a7	✓				✓			✓
	a8	✓				✓			✓
	a9			✓		✓	✓	✓	
	a10			✓		✓	✓	✓	
b	b1	✓				✓			
	b2	✓				✓			
	b3			✓		✓	✓	✓	
c	c1	✓				✓			
	c2	✓				✓			
	c3	✓				✓			
	c4	✓				✓			
d	d1								
	d2								

Course Coordinator: Prof. Gihan Omar

Head of department: Prof. Shahira Elashery

Date of Approval: 3/9/2017

Course Specifications
Ethics, Forensics and Report writing 1

OMPD 541

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery
Department offering the course: Orthodontics and Pedodontics Department
Academic Year / Level : 5th year / 9th semester

A- Basic Information

Course Title	OMPD 541
Credit Hours	2
Lecture /week	2
Practicals / week	0
Total	2

Pre-requisite: all pre clinical subjects

B- Professional Information

1. Overall Aims of Course

- To improve the quality of life for children, through excellence and leadership of graduates in clinical practice, preventive care and community service.
- To provide students with knowledge about the comprehensive, preventive oral health care to infants, children, and adolescents
- To enable students to write reports and understand need for referral.
- To Introduce forensics and its relation to dentistry.
- To Introduce dental ethics and its principles.

2- Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course, each student will be able to:

a1- Identify levels of prevention.

a2 -Describe different strategies for caries prevention.

a3-Identify delirious oral habits, their effects and recommend suitable management.

- a4-Memorize factors causing malocclusion.
- a5- Memorize forensics and its relation to dentistry.

b) Intellectual Skills:

By the end of the course, each student will be able to:

- b1- Differentiate between local and systemic factors causing periodontal diseases
- b2- Differentiate between local and systemic factors causing dental caries
- b3- Select the means of intervention for prevention of malocclusion.

c) Professional and Practical Skills:

By the end of the course, the student should be able to:

- c1- write dental reports and refer the patients for medical consultation.
- c2- Give the patient instructions on methods of prevention of dental caries.
- c3- Guide the patients to the cessation of different oral habits.
- c4- Guide the patients to the proper management of different types of malocclusions and referral for orthodontic treatment.

d) General and transferable skills

By the end of the course, each student will be able to:

- d1-Write a medical report and medical referral.
- d2- Consider the principles of dental ethics and their applications in dental practice.

3. Course Contents:

Weeks	Topics
1 st week	Introduction and levels of prevention Prev of caries (diet) Prev of caries (mech control) Prev of caries (int. cl. dev&chem control) Prev of caries(inc.tooth resistsnce) 1st Mid term exam Prev of periodontal diseases Prev of occlusal abnormalities Forensics & Report writing
2 nd week	
3 rd week	
4 th week	
5 th week	
6 th	
7 th	
8 th	

4. Teaching Methods

4-1.
4-2.
discussion

9 th	2nd Mid term exam Dental forensics in dentistry Ethics in dentistry
10 th	
11 th	
12 th	

and Learning

Lectures
Lecture with

5. Student Assessment Methods

5-1. Written examination to assess knowledge and understanding.

Assessment Schedule

Assessment 1: 1st Mid Term Exam
Assessment 2: 2nd Mid Term Exam
Assessment 3: Final written exam

Weighting of Assessments

Mid Term Examinations	30	%
Class work	20	%
Final Written Examination	50	%
Total	100	%
Any formative only assessments		

6. List of References

6-1. Course notes

7. Facilities Required for Teaching and Learning

- Large lecture halls
- Small Group classes

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion

Teaching Plan:

ILOs		4-1	4-2
a	a1	√	√
	a2	√	√
	a3	√	√
	a4	√	√
	a5	√	√
b	b1	√	√
	b2	√	√
	b3	√	√
c	c1	√	√
	c2	√	√
	c3	√	√
	c4	√	√
d	d1	√	√
	d2	√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination

Assessment Plan:

ILOs		5-1
a	a1	√
	a2	√
	a3	√
	a4	√
	a5	√
b	b1	√
	b2	√
	b3	√
c	c1	√
	c2	√
	c3	√
	c4	√
d	d1	√
	d2	√

Course Coordinator :DR Samah Awad

Head of Department :DR Osama El Shahwy

Date: / /

Future University

Faculty of Oral and Dental Medicine

Course Specifications
Ethics, Forensics & Report writing 2
MPDR 542

Course Specifications

Program on which the course is given: Bachelor of Dental medicine and Surgery

Department offering the course: Orthodontics and Pedodontics Department

Academic Year / Level: 5th year / 10th semester

A- Basic Information

Course Title	MPDR 542
Credit Hours	2
Lecture /week	2
Practicals / week	0
Total	2

Pre-requisite: MPDR 541

Professional Information

1. Overall Aims of Course

- . To teach the student to design oral health care programs to benefit individuals and community.
- . To help students to understand pillars of health education.
- . To introduce epidemiology and different types of studies.
- . To introduce epidemiology of dental caries and periodontal diseases.
- . To propose types of need and demand for dental treatment.
- . To teach dental ethics and importance of team work.
- . To provide students with knowledge about forensics in dentistry.
- . To teach students to write proper dental reports.

2- Intended Learning Outcomes of Course(ILOs)

a) Knowledge and understanding :

By the end of the course, each student will be able to:

A1-Discuss dental health education and its principles.

A2-Describe principles of dental ethics.

A3- State the needs and demands for dental treatment.

b) Intellectual Skills:

By the end of the course, each student will be able to:

B1-Design a dental health program.

B2-Design a suitable research study.

c) Professional and Practical Skills:

By the end of the course, the student should be able to:

- c1- Write proper dental reports.
- c2- Create an oral health education program.

d) General and transferable skills

By the end of the course, each student will be able to:

- d1- Can form a team, understand factors contributing in its success and compare it to group practice.
- D2- Consider basics of dental ethics in all aspects of their dental work while dealing with patients and colleagues.

3. Course Contents:

Topics Schedule

Weeks	Topics
1st week	Dental Health education
2nd week	Introduction to epidemiology
3rd week	Factors affecting caries epidemiology
4th week	Caries Indices
5th week	Dental needs and Demands
6th	1st mid term
7th	Organization of dental care
8th	Group practice & team work
9th	Epidemiology of periodontal Diseases
10th	Report writing
11th	2nd mid term
12th	Dental ethics
	Forensics

4. Teaching and Learning Methods

4-1. Lectures

4-2. Lecture with discussion

5. Student Assessment Methods

5-1. written examination to assess knowledge and understanding.

Assessment Schedule

Assessment 1: 1st Mid Term Exam

Assessment 2: 2nd Mid Term Exam

Assessment 3: Final written exam

Weighting of Assessments

Mid Term Examinations	30	%
Class work	20	%
Final Written Examination	50	%
Total	100	%
Any formative only assessments		

6. List of References

6-1. Course notes

7. Facilities Required for Teaching and Learning

- Large lecture halls
- Small Group classes

Teaching and learning methods:

Code	Teaching and learning Method
4-1	Lectures
4-2	Small group discussion

Teaching Plan:

ILOs		4-1	4-2
a	a1	√	√
	a2	√	√
	a3	√	√
b	b1	√	√
	b2	√	√
c	c1	√	√
	c2	√	√
d	d1	√	√
	d2	√	√

Assessment methods:

Code	Assessment Method
5-1	Written examination

Assessment Plan:

ILOs		5-1
a	a1	√
	a2	√
	a3	√
b	b1	√
	b2	√
c	c1	√
	c2	√
d	d1	√
	d2	√

Course Coordinator: Dr. Samah Awad

Head of Department: Dr. Osama El Shahwy

Date: / /

Elective courses

I. Course Information

Course Code	PSY101	Course Name	Psychology	
Level		Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
	<i>Total Hours</i>	Theoretical	Tutorial	Practical
2	2	-	-	
Course Prerequisite(s)	None			
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the basic concepts, theories and information about the psychological behavior and factors affecting it. (A1)
- Use basic science in psychology. (A3)
- Demonstrate professional responsibilities, ethical, cultural and societal aspects of psychology. (CS A6)
- Own the needed knowledge and skills in psychology. (A11)
- Carry out a self-learning and research in psychology field. (A12)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
K1, K2, K3, K4, K5	I1, I2, I3	P1, P2, P3, P4	T1, T2

IV. Intended Learning Outcomes of the Course (ILOs)

a) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Describe insights into their environment and their psychological well-being. (K1)
- CK2. Select different human behavior and ways of its motivation. (K2)
- CK3. Define different psychological terms, concepts and principles. (K3)
- CK4. State major perspectives in psychology. (K4)
- CK5. Discuss the ways that psychological theories are used to assess, predict and change human behavior. (K5)

b) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Apply critical thinking using psychological theories and principles on personal relationships. (I1)
- CI2. Assess human behavior. (I2)
- CI3. Predict human behavior. (I3)

c) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Use observational methods to describe, explain, predict as well as control behavior of either one's or others. (P1)
- CP2. Apply psychology to influence and improve lives of human beings. (P2)
- CP3. Make decisions in different situations effectively. (P3)
- CP4. Manage time effectively. (P4)

d) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Communicate effectively with others by applying the information they gained about how the body and mind work together. (T2)
- CT2. Set goals and plans to achieve them. (T4)

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Introduction to Psychology	1				

2	Biological bases on behavior	1	CK1-CK5	CI1 – CI3		
3	Sensation and perception	1	CK1-CK5	CI1 – CI3		
4	State of consciousness	1	CK1-CK5	CI1 – CI3		
5	Memory	1	CK1-CK5	CI1 – CI3	CP1-CP4	CT1-CT2
6	Learning	1	CK1-CK5	CI1 – CI3	CP1-CP4	CT1-CT2
7	Semester assignment	1	CK1-CK5	CI1 – CI3		
8	Personality	2	CK1-CK5	CI1 – CI3		
11	Personality disorders	2	CK1-CK5	CI1 – CI3	CP1-CP4	CT1-CT2
12	Review / discussion of the research assignment	1				
Total Number of Teaching Weeks : 12						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	Introduction to Psychology.	2	2	
2	Biological bases on behavior	2	2	
3	Sensation and perception	2	2	
4	State of consciousness	2	2	
5	Memory	2	2	
6	Learning	2	2	
7	Mid-Term Exam	2	2	
8	Semester assignment	2	2	
9	Personality	2	2	
10	Personality	2	2	
11	Personality disorders	2	2	

12	Personality disorders	2	2	
13	Review / discussion of the research assignment	2	2	
14-16	Final Exam	2	2	
Total Hours		28	28	

VII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1-CK5	CI1 – CI3		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×	CK1-CK5	CI1 – CI3	CP1 – CP4	CT1-CT2
5	Seminars					
6	Case Studies/Project	×	CK1-CK5	CI1 – CI3	CP1 – CP4	CT1-CT2
7	Problem Solving					
8	Others (Participation)					
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VIII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK5	CI1 – CI3		7	30%	
2	Final Exam	×	CK1-CK5	CI1 – CI3		14-16	40%	
3	Quizzes						10%	

4	Assignments							5%
5	Presentations							
6	Individual Projects							
7	Research and Reporting	×	CK1-CK5	CII – CI3	CP1-CP4	CT1-CT2		15%
8	Team Work Projects							
9	Practical Exam							
10	Others (Participation-Attendance)							
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 				

IX. References

Essential Text Books	Robert S. Feldman, Understanding Psychology, 10 th ed., McGraw Hill, 2011.
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	None
Online Web Sites	<ul style="list-style-type: none"> • https://psychology.stanford.edu/
Others (Specify)	None

X. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√			
PC/Laptop	√			
Data-Show	√			
Laser Pointer	√			
Internet	√			
Printer				√
Copier				√
Learning Management System (Moodle)			√	
Software Packages				
Laboratories				

- **Course Coordinator:Dr. Maha Ali Gharib**
- **Head of The Department: Dr. MahaAli Gharib**
- **Date:**

I. Course Information

Course Code	SOC101	Course Name	Sociology	
Level	Elective	Specialization	CSC and IS Programs	
Department Offering The Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
<i>Total Hours</i>	Theoretical	Tutorial	Practical	
2	2	-	-	
Course Prerequisite(s)				
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the basic principles of sociology as an academic discipline and provide an analytical perspective of society and everyday life through sociological theories. (A1)
- Explain the ways in which people interact and function in groups. (A4)
- Demonstrate professional responsibilities, ethical, cultural values, norms, social stratification, social problems, race and ethnicity, conformity, deviance, urban living, social change, and social movements. (A6)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
K1, K2, K3	I1, I2, I3, I4, I5, I6	P1, P2, P3, P4	T1, T2

IV. Intended Learning Outcomes of the Course (ILOs)

a) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Discuss specific areas of study within sociology.
- CK2. Identify how the sociological perspective widens our understanding of society
- CK3. Recognize fundamental sociological theories, concepts, and research methods.

b) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Analyze social structure of society
- CI2. Explore social changes in modern societies.
- CI3. Suggest new social issues to be studied during class time.
- CI4. Develop understanding of the sociological perspective.
- CI5. Correlate between social structures, social forces, and individual circumstances.
- CI6. Plan a research project.

c) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Apply sociological concepts, terms, and theories to the processes of everyday life.
- CP2. Provide explanations for social inequality.
- CP3. Apply the understandable complex ideas to practical situations.
- CP4. Fulfill a research project.

d) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Communicate effectively with others by applying the information they gained about how the body and mind work together.
- CT2. Set goals and plans to achieve them.

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	What do we mean by sociology?	1				
2	Benefits of sociology	1	CK1-CK5	CI1 – CI3		
3	Culture and society	1	CK1-CK5	CI1 – CI3		
4	The relationship between sociology and other social sciences?	1	CK1-CK5	CI1 – CI3		
5	Social Groups	1	CK1-CK5	CI1 – CI3		
6	Social Institutions	1			CP1-CP4	CT1-CT2
7	Media and Society	1	CK1-CK5	CI1 – CI3		
8	Social Networks	1	CK1-CK5	CI1 – CI3		
9	Socialization	1	CK1-CK5	CI1 – CI3		
10	Social Stratification	1	CK1-CK5	CI1 – CI3		
11	Discussion of the Project	1			CP1-CP4	CT1-CT2
Total Number of Teaching Weeks : 12						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	What do we mean by sociology?	2		
2	Benefits of sociology	2		
3	Culture and society	2		

4	First Midterm Exam	2		
5	The relationship between sociology and other social sciences?	2		
6	Social Groups	2		
7	Social Institutions	2		
8	Second Midterm exam	2		
9	Media and Society	2		
10	Social Networks	2		
11	Socialization	2		
12	Social Stratification	2		
13	Discussion of the Project	2		
14-16	Final Exam	2		
Total Hours		28		

VII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1-CK5	CI1 – CI3		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×			CP1-CP4	CT1-CT2
5	Seminars					
6	Case Studies/Project	×	CK1-CK5	CI1 – CI3		
7	Problem Solving					
8	Others (Participation)	×	CK1-CK5	CI1 – CI3		CT1-CT2
**	<ul style="list-style-type: none"> • K.U. : Knowledge and Understanding • I.S. : Intellectual Skills 			<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 		

VIII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK5	CI1 – CI3			4-7	30%
2	Final Exam	×	CK1-CK5	CI1 – CI3			14-16	40%
3	Quizzes							
4	Assignments	×	CK1-CK5	CI1 – CI3				10%
5	Presentations							
6	Individual Projects							

7	Research and Reporting							
8	Team Work Projects	×	CK1-CK5	CI1 – CI3	CP1-CP4	CT1-CT2		10%
9	Practical Exam							
10	Others (Participation-Attendance)	×	CK1-CK5	CI1 – CI3		CT1-CT2		10%
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 					

IX. References

Essential Text Books	George Ritzer, "Introduction to Sociology", SAGE, 2015
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	None
Online Web Sites	<ul style="list-style-type: none"> • http://www.sociosite.net • http://www.trinity.edu/~mkearl/index.html • http://www.e-library.esut.edu.ng/uploads/pdf/4870428549-the-penguin-dictionary-of-sociology.pdf
Others (Specify)	None

X. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√			
PC/Laptop	√			
Data-Show	√			

Laser Pointer	√			
Internet	√			
Printer				√
Copier				√
Learning Management System (Moodle)	√			
Software Packages				
Laboratories				

- **Course Coordinator: Dr. Saleh Abdel Azim**
- **Head of The Department:**
- **Date:**

I. Course Information

Course Code	ENV101	Course Name	Environmental Science	
Level	all	Specialization	CSC and IS Programs	
Department Offering the Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	-
	<i>Contact Hours</i>			
	<i>Total Hours</i>	Theoretical	Tutorial	Practical
2	2	-	-	
Course Prerequisite(s)	None			
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the basic concepts, terminology, principles and theories that comprise a course in thinking scientifically in area of environmental science. (A1)
- Demonstrate professional responsibilities, ethical, cultural and societal aspects in area of environmental science. (A6)
- Deal with the individual, social, environmental, organizational and economic implications of the application of environmental science. (A8)
- Use effectively communication skills to emphasize research methodology, to encourage critical thinking, and to convey a scientific as well as systematic approach to environmental awareness. (A10)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
K1, K8	I3, I7, I8	P5, P7	T1, T2, T4

IV. Intended Learning Outcomes of the Course (ILOs)

a) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1. Define fundamental concepts and theories related to environmental science. (K1)
- CK2. Discuss principles of managements and economics relevant to environmental science. (K8)

b) Intellectual Skills

On completing the course, the student should be able to:

- CI1. Illustrate measurement criteria for the deployment of environmental science. (I3)
- CI2. Aware with professional, moral, legal and ethical issues related to environmental science. (I7)
- CI3. Criticize research paper in environmental science area. (I8)

c) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1. Acquire a set of fundamental research skills from different resources of environmental science. (P5)
- CP2. Evaluate the risks and safety aspects related to environmental science. (P7)

d) General and Transferable Skills

On completing the course, the student should be able to:

- CT1. Exploit a range of learning resources about environmental science. (T1)
- CT1. Work in a team to develop the requirement documentation about environmental science. (T2)
- CT2. Apply communication skills in presentations and report writing using various methods and tools. (T4)

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Introduction to environmental science	1	CK1-CK2	CI1- CI3		
2	Natural resources management. Ecological footprint, population and consumption as well as	1	CK1-CK2	CI1- CI3		

	sustainability					
3	Air pollution	1	CK1-CK2	CI1- CI3		
4	Temperature inversion. Indoor air pollution. Air pollution control, solutions to acid rain.	1	CK1-CK2	CI1- CI3		
5	Climate change. Troposphere, stratosphere. The greenhouse effect. Ozone layer decay. Future climate prediction	1	CK1-CK2	CI1- CI3		
6	Water resources	1	CK1-CK2	CI1- CI3		
7	Water pollution and water quality. Eutrofication, ground water	1	CK1-CK2	CI1- CI3		
8	Solids and hazardous waste. Resources, waste disposal methods	1	CK1-CK2	CI1- CI3		
9	Environmental legislations	1	CK1-CK2	CI1- CI3		
10	Energy use and conversion	1	CK1-CK2	CI1- CI3		
11	Land reclamation	1	CK1-CK2	CI1- CI3		
12	Project presentation	1			CP1–CP2	CT1-CT3
Total Number of Teaching Weeks : 12						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	introduction: to environmental science	2	2	
2	Natural resources management. Ecological footprint, population and consumption as well as sustainability	2	2	
3	Air pollution	2	2	
4	Temperature inversion. Indoor air pollution. Air pollution control, solutions to acid rain.	2	2	
5	Climate change. Troposphere, stratosphere. The greenhouse effect. Ozone layer decay. Future climate prediction	2	2	
6	Water resources	2	2	
7	Water pollution and water quality.	2	2	

	Eutrofication, ground water			
8	Solids and hazardous waste. Resources, waste disposal methods	2	2	
9	Mid Term Exam	2		
10	Environmental legislations	2	2	
11	Energy use and conversion	2	2	
12	Land reclamation	2	2	
13	Project presentation	2	2	
14-16	Final Exam	2		
Total Hours		28	24	

VII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including discussion	×	CK1 – CK2	CI1 – CI3		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×	CK1 – CK2	CI1 – CI3	CP1 – CP2	CT1-CT3
5	Seminars					
6	Case Studies	×			CP1 – CP2	CT1-CT3
7	Problem Solving					
8	Others (Specify)					
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VIII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		

1	Midterm Exam (s)	×	CK1–CK2	CI1-CI3			9	30%
2	Final Exam	×	CK1–CK2	CI1-CI3			14-16	40%
3	Quizzes	×	CK1–CK2	CI1-CI3			5	10%
4	Assignments							
5	Presentations				CP1–CP2	CT1-CT3		5%
6	Individual Projects	×	CK1–CK2	CI1-CI3	CP1–CP2	CT1-CT3		10%
7	Research and Reporting							
8	Team Work Projects							
9	Practical Exam							
10	Others (Participation)	×	CK1–CK2	CI1-CI3	CP1–CP2	CT1-CT3		15%
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 					

IX. References

Essential Text Books	
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	None
Online Web Sites	<ul style="list-style-type: none"> • www.ekb.eg
Others (Specify)	None

X. Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√	√	√	
PC/Laptop	√	√	√	
Data-Show	√	√	√	
Laser Pointer	√			
Internet	√		√	
Printer				√
Copier				√
Learning Management System (Moodle)	√			
Software Packages				
Laboratories				

- **Course Coordinator:Prof.Almotaz Youssef Abdel Aziz**
- **Head of The Department:Dr. MahaGharib**
- **Date:**

I. Course Information

Course Code	SCT101	Course Name	Scientific Thinking	
Level		Specialization	CS and IS Programs	
Department Offering the Course	University Requirements Unit			
Credit Hours	<i>Credit Hours</i>			
	<i>Total Credit Hours</i>	Theoretical	Tutorial	Practical
	2	2	-	—
	<i>Contact Hours</i>			
	<i>Total Hours</i>	Theoretical	Tutorial	Practical
2	2	-		
Course Prerequisite(s)	None			
Approval Date of Course Specification				

II. Overall Aims of the Course

Upon completion of this course, students will be able to:

- Apply the basic concepts, theories and information about the scientific thinking and factors affecting it. (A1)
- Use basic science in scientific thinking. (A3)
- Demonstrate professional responsibilities, ethical, cultural and societal aspects about thinking scientifically. (A6)
- Own the needed knowledge and skills in scientific thinking. (A11)
- Carry out a self-learning and research in scientific thinking field. (A12)

III. Program ILOs Covered by the Course

Program Intended Learning Outcomes (ILOS) by Code			
Knowledge and Understanding	Intellectual Skills	Practical / Professional Skills	General and Transferable Skills
K1, K2, K3, K4, K5	I1, I2, I8	P1, P2	T1, T2, T7

IV. Intended Learning Outcomes of the Course (ILOs)

a) Knowledge and Understanding

On completing the course, the student should be able to:

- CK1.** Describe insights into their environment and their scientific thinking well-being. (K1)
- CK2.** Select different human behavior and ways of its motivation. (K2)
- CK3.** Define different scientific thinking terms, concepts and principles. (K3)
- CK4.** State major perspectives in scientific thinking. (K4)
- CK5.** Discuss the ways that scientific thinking theories are used to assess, predict and change human behavior. (K5)

b) Intellectual Skills

On completing the course, the student should be able to:

- CI1.** Apply critical thinking using scientific thinking theories and principles on personal relationships. (I1)
- CI2.** Assess human behavior in scientific thinking. (I2)
- CI3.** Criticize research paper in scientific thinking. (I8)

c) Practical / Professional Skills

On completing the course, the student should be able to:

- CP1.** Use observational methods to describe, explain, predict as well as control behavior of scientific thinking. (P1)
- CP2.** Show scientific thinking to influence and improve lives of human beings. (P2)

d) General and Transferable Skills

On completing the course, the student should be able to:

- CT1.** Communicate effectively with others by applying the information they gained about scientific thinking. (T2)
- CT2.** Set goals and plans to achieve them. (T4)
- CT3.** Appreciate continuous professional development and lifelong learning. (T7)

V. Course Matrix Content

No.	Main Topic	No. of Weeks	Course ILOs Covered by Topic (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Introduction: What is scientific Thinking?	2				
2	Types of scientific thinking- scientific thinking components	1	CK1-CK5	CI1 – CI3		
3	Elements of science- scientific method-collecting information	1	CK1-CK5	CI1 – CI3		
4	Class work and project assignment	1	CK1-CK5	CI1 – CI3		
5	Hypothesis	1	CK1-CK5	CI1 – CI3	CP1-CP2	CT1-CT3
6	Research assignment discussion	1	CK1-CK5	CI1 – CI3	CP1-CP2	CT1-CT3
7	Variable	2	CK1-CK5	CI1 – CI3		
8-10	Analysis	2	CK1-CK5	CI1 – CI3		
11	Decision making	1	CK1-CK5	CI1 – CI3	CP1-CP2	CT1-CT3
Total Number of Teaching Weeks : 12						
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 		<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 			

VI. Course Weekly Detailed Topics

No.	Main Topic	Total Hours / Week	Theoretical Hours	Practical Hours
1	What is scientific Thinking?	4	4	
2	[to be continued] What is scientific Thinking?	2	2	

3	Types of scientific thinking-scientific thinking components	2	2	
4	Elements of science-scientific method-collecting information	2	2	
5	Class work and project assignment	2	2	
6	Hypothesis	2	2	
7	Mid-Term Exam	2		
8	Research assignment discussion	2	2	
9	Variable	2	2	
10	Variable	2	2	
11	Analysis	2	2	
12	Analysis	2	2	
13	Decision making	2	2	
14-16	Final Exam	2	2	
Total Hours		28	28	

VII. Teaching and Learning Methods

No.	Teaching / Learning Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)			
			K.U.	I.S.	P.P.S.	G.T.S.
1	Interactive Lectures including Discussions	×	CK1-CK5	CI1 - CI3		
2	Tutorials					
3	Practical Lab Sessions					
4	Self-Study (Project / Reading Materials / Online Material / Presentations)	×	CK1-CK5	CI1 - CI3	CP1 - CP2	CT1-CT3
5	Seminars					
6	Case Studies	×	CK1-CK5	CI1 - CI3	CP1 - CP2	CT1-CT3
7	Problem Solving					

8	Others (Specify)					
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 	<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 				

VIII. Assessment Methods, Schedule and Marks Distributions

No.	Assessment Method	Selected Methods	Course ILOs Covered by Method (By ILO Code)				Week(s) No.	Marks %
			K.U.	I.S.	P.P.S.	G.T.S.		
1	Midterm Exam (s)	×	CK1-CK5	CI1 – CI3			7	30%
2	Final Exam	×	CK1-CK5	CI1 – CI3			14-16	40%
3	Quizzes							10%
4	Assignments							5%
5	Presentations							
6	Individual Projects	×	CK1-CK5	CI1 – CI3	CP1-CP2	CT1-CT3		15%
7	Research and Reporting							
8	Team Work Projects							
9	Practical Exam							
10	Others (Participations)							
**	<ul style="list-style-type: none"> • K.U. :Knowledge and Understanding • I.S. :Intellectual Skills 	<ul style="list-style-type: none"> • P.P.S.: Practical / Professional Skills • G.T.S. : General and Transferable Skills 						

X. References

Essential Text Books	
Course Notes	Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)
Extra Recommended Books	None
Online Web Sites	None
Others (Specify)	None

Tools and Facilities Required for Teaching and Learning

Facility	Lecture	Class	Lab	Admin
White Board	√	√	√	
PC/Laptop	√	√	√	
Data-Show	√	√	√	
Laser Pointer	√			
Internet	√			

Printer				√
Copier				√
Learning Management System (Moodle)	√			
Software Packages				
Laboratories				

- **Course Coordinator: Dr. Maha Ali Gharib**
- **Head of The Department: Dr. Maha Ali Gharib**
- **Date:**